

**ICE 2012** DAEGU  
KOREA

# **XXIV International Congress of Entomology**

‘New Era in Entomology’

August 19-25, 2012 | Daegu, Korea

**PROGRAM**



# 色彩生動

[Colorful Daegu, Wonderful Destination]

Colorful  
DAEGU

**The flower of all MICE industries, conventions!**  
**Daegu has got what it takes to be the place for**  
**all kinds of conventions!**

From optimum support system for exhibitions and conventions, traffic infrastructure, vibrant culture, to world-class heritage for sightseeing; Daegu, proud host of International Congress of Entomology 2012, World Energy Congress in 2013 and World Water Forum in 2015, is an international conference city that will lend you a friendly hand in opening the doors to the future.



**dcvb**

**DAEGU Convention & Visitors Bureau**

Tel. 82-53-601-5290 Fax. 82-53-601-5298 E-mail [dcvb@daegucvb.com](mailto:dcvb@daegucvb.com) [www.daegucvb.com](http://www.daegucvb.com)





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KOREA

**XXIV  
International  
Congress of  
Entomology**

# XXIV International Congress of Entomology

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# Welcome Message

## from the Chairman of the ICE Council

On behalf of the Council for International Congress of Entomology, I extend a warm welcome to all Fellow Entomologists participating in the "XXIV International Congress of Entomology", being hosted by the Entomological Society of South Korea. The Congress theme, "New Era in Entomology", is highly appropriate one to usher in a new revolution in entomology science, and its application for conservation of biodiversity and environment, and minimize the losses due to insect pests for increasing crop production and food security.

The scientific deliberations spread over 17 sections with six plenary speakers of integration repute will create an awareness of the progress made, and the challenges that we need to address for sustainability of the environment and food security. The congress will also provide an opportunity to discuss some of the important issues such as use of genetically modified plants, natural enemies, and microbes for pest management, and their biosafety to the environment.

Application of molecular tools for detection and identification of insects and development of more productive strains of silk worm, honeybees, and pollinators will also be discussed. However, rapid and cost effective development, and adoption of biotechnology derived products will depend on developing a full understanding of the interaction of genes within their genomic environment, and with the external environment in which their conferred phenotype must interact.

Another important topic being discussed is the effect of global warming on insect pests, and its implications for pest management. Critical issues related to invasive species, bio-security, development of resistance to insecticides and genetically engineered plants will also be addressed during the congress.

The enthusiasm and excitement displayed by the Organizing Committee and the local administration certainly promises that the "XXIV International Congress of Entomology" will be a grand success. The Organizing Committee of the XXIV International Entomology Congress has left no stone unturned to make it a grand success, and I look forward to your enthusiastic participation and contributions to make it a grand success.



**Hari C Sharma**

Chairman, Council of the International Congress of Entomology

# Welcome Message

from the President of the ICE2012



Dear Colleagues,

The Entomological Society of Korea, the Korean Society of Applied Entomology, the Korean Society of Sericultural Science, the Apicultural Society of Korea, and the Local Organizing Committee for the XXIV International Congress of Entomology cordially invite you to attend this major event, to be held in Daegu, Republic of Korea. The Local Organizing Committee, in collaboration with our professional congress organizers, is glad to invite entomologists from all over the world to XXIV ICE2012 in Daegu, Republic of Korea between 19-25, August, 2012. Since Korea peninsula is located between mainland China, and Japanese islands, the fauna of insect has also an important role in Asia. We have been working extremely hard to develop a truly dynamic forum for the exchange of new information and ideas of significance to entomologists of all persuasions from around the world.

It would be a great pleasure for us if you accept our invitation. We are convinced, that this congress will fit into the series of these developing gatherings of our entomologists, and outstanding as much as its content and atmosphere are concerned.

With this landmark event we celebrate the first International Congress of Entomology to be staged in Korea. We are confident that Daegu and EXCO, the acclaimed International Convention Centre will live up to your high expectations as well as convenient accommodation, and we encourage our colleagues throughout the world to use this opportunity to get a glimpse of Korean peninsula's astonishing insect fauna, to engage with its entomologists and to enjoy hospitality of the Republic of Korea.

We look forward to welcoming you to Daegu.

Byungjin Kim  
President, ICE2012

# Local Organizing Committees

## President of Local Organizing Committee

Byung-Jin KIM (Prof., Wonkwang Univ., Korea)

## Deputy President of Local Organizing Committee

Young-Joon AHN (Prof., Seoul National Univ., Korea)

## Advisory Committee

Thomas MILLER (Prof., Univ. of California, Riverside, USA)

Van EMDEN (Prof., Univ. of Reading, UK)

Michael CLARIDGE (Prof., Univ. of Cardiff, UK)

Sang Ho NAM (Prof., Daejeon Univ., Korea)

Yong Jung KWON (Prof., Kyungpook National Univ., Korea)

## Secretary Office

### Secretary General

Chi-Young YUN (Prof., Daejeon Univ., Korea)

### Deputy Secretary

Kyung Jin MIN (Prof., Inha Univ., Korea)

Yeon Soo HAN (Prof., Chonnam National Univ., Korea)

## Treasury Office

### Treasurer

Yonggyun KIM (Prof., Andong National Univ., Korea)

### Deputy Treasurer

Yang Seop BAE (Prof., Univ. of Incheon, Korea)

## Science Planning Committee

### Chair

Joon-Ho LEE (Prof., Seoul National Univ., Korea)

### Deputy Chair

Si Hyeock LEE (Prof., Seoul National Univ., Korea)

## Finance & Fundraising Committee

### Chair

Dong Ro CHOI (Director, National Institute of Horticultural and Herbal Science, Rural Development Administration, Korea)

### Deputy Chair

Sang-Chul SHIN (Head, Div. Forest Pests & Diseases, Korea Forest Research Institute, Korea)

Myeong Rae JO (Senior Researcher, National Institute of Horticultural & Herbal Science, Rural Development Administration, Korea)

## Publication Committee

### Chair

Ohseok KWON (Prof., Kyungpook National Univ., Korea)

### Deputy Chair

Kijong CHO (Prof., Korea Univ., Korea)

## Coordinating Committee

### Chair

Ho Yong PARK (Dr., Korea Research Institute of Bioscience & Biotechnology, Korea)

### Deputy Chair

Soowon CHO (Prof., Chungbuk National Univ., Korea)

Chang Soo KANG (Prof., Hoseo Univ., Korea)

Un Taek LIM (Prof., Andong National Univ., Korea)

## Registration Committee

### Chair

Iksoo KIM (Prof., Chonnam National Univ., Korea)

### Deputy Chair

Byung Rae JIN (Prof., Dong-A Univ., Korea)

Yeonho JE (Prof., Seoul National Univ., Korea)

## Exhibition Committee

### Deputy Chair

Soo-Dong WOO (Prof., Chungbuk National Univ., Korea)

Myeong-Lyoe LEE (Dr., Rural Development Administration, Korea)

## Tour Committee

### Chair

Yong Man YU (Prof., Chungnam National Univ., Korea)

### Deputy Chair

MyungIn MOON (Prof., Dankook Univ., Korea)

## Internet Information Committee

### Chair

Chul Eui JUNG (Prof., Andong Univ., Korea)

### Deputy Chair

Se Woong CHOI (Prof., Mokpo National Univ., Korea)

## Public Relation Committee

### Chair

Seunghwan LEE (Prof., Seoul National Univ., Korea)

### Deputy Chair

Hyung Wook KWON (Prof., Seoul National Univ., Korea)

Kang Woon LEE (Dr., Holocore Ecosystem Conservation Research, Korea)

## Young Entomologist Committee

### Chair

Yong-Lak PARK (Prof., West Virginia Univ., USA)

Jeff BRADSHAW (Univ. of Nebraska, USA)

### Student Representative

Christian MORGEN (Univ. of California, Riverside, USA)

## Women Entomologist Committee

### Chair

Genet M. TULGETSKE (Univ. of California, Riverside, USA)

### Deputy Chair

Kyung-Hwa PARK (Chonbuk National Univ., Korea)

# Useful Information



## ATMs

You will find Automated Teller Machines on nearly every street corner or in convenience stores. ATMs are in the venue.



## BUSINESS HOURS

For most government and private offices, business hours are from 9am to 6pm Monday to Friday. Banking hours are from 9am to 4pm Monday to Friday. Business hours for ATMs are vary, and it is written on the machine. However, they are not generally open 24 hours. Post offices are open from 9am to 6pm Monday to Friday.



## CLIMATE

The temperature in Daegu in August ranges approximately between 30-34°C degrees.



## CURRENCY

The unit of Korean currency is the Won(W). Coin denominations are ₩10, ₩50, ₩100 and ₩500. Banknotes are ₩1,000, ₩5,000, ₩10,000 and ₩50,000.

- **Currency exchange**: Foreign banknotes and traveler's check can be exchanged at foreign exchange banks and other authorized money changers.

- **Credit cards**: Diners Club, Visa, American Express and Master Card are widely accepted at major hotels, shops and restaurants. Check with your credit card company for details of merchant acceptability and other services that may be available.

- **Traveler's check**: Accepted, but may be difficult to change in small shops. To avoid additional exchange rate charges, travelers are advised to bring Traveler's checks in US Dollars.



## ELECTRICITY

In Korea, 220 volt outlets are usual. Always check the power supply before using your equipment.



## EMERGENCIES

112: Police

119: Emergencies for Fire / Rescue & Hospital Services



## LOCAL TIME

Korea standard time zone is GMT + 9 hours.



## SMOKING

Smoking is prohibited inside the buildings in all public places in Korea.



## TELEPHONE CALLS

For International calls, first dial the international dial code (001, 002 or 00700), then the country code, followed by the area code excluding first zero, then the phone number.



## TIPPING

Tipping is not a traditional Korean custom. A 10% service charge is added to the bill and tipping is not expected. It is also not necessary to tip a taxi driver unless extra services are provided.



## USEFUL WEBSITES

Korea National Tourism Organization (<http://kto.visitkorea.or.kr>)

Gateway to Korea (<http://www.korea.net>)

Daegu Convention & Visitors Bureau (<http://www.daeguvcvb.com/eng/index.asp>)

Korea Immigration Service (<http://www.immigration.go.kr/indeximmeng.html>)

Ministry of Foreign Affairs and Trade (<http://www.mofat.go.kr/english/visa/apply/index.jsp>)

# Congress Information



## REGISTRATION DESK

Please visit the Registration Desk to complete your payment and receive your Name Badge.

- Place : Exhibition Hall, 3F
- Operation Hours : Aug 19, 09:00-18:00 / Aug 20-24, 07:00-17:00



## NAME BADGE

Name badge will be used as a pass. All participants are required to wear their name badge throughout the entire congress. Please note that admission to the scientific session room is restricted to the registered participants wearing their name badges. It's off limit to Accompanying Persons and Exhibitors at all times.



## ACCOMPANYING PERSONS

Accompanying Persons who are fully registered for the Congress are entitled to attend the opening ceremony, visit the exhibition and participate in the Accompanying Tour on the 21st, 23rd of August from 13:30-18:00.



## ACCOMMODATION & TOUR INFORMATION DESK

- Place : Next to Registration Desk, Exhibition Hall, 3F
- Operation Hours : Aug 19, 09:00-18:00 / Aug 20-24, 07:00-17:00
- Telephone number : (053)601-6864 / 6865



## PREVIEW ROOM

All speakers must visit the Preview Room, 3F and check and upload your presentation files before your presentation.

- Operation Hours : Aug 19, 14:00-18:00 / Aug 20-24, 08:00-17:00



## POSTER SESSION

Taxonomy, Physiology, and Ecology : Aug 20-21, 10:00-18:00 / Aug 22, 10:00-12:00  
IPM, Pathology, Medical Entomology, Others : Aug 22, 12:00 - Aug 24, 18:00

- Place : Exhibition Hall, 3F



## MESSAGE BOARD

Participants will have the opportunity to exchange messages with other participants and get updated session information on the Message board.

- Place : 3F, Next to the Information desk



## CLOAK ROOM

- Place : Exhibition Hall 3F
- Operation Hours : Aug 19, 16:00-21:00 / Aug 20-24, 09:00-17:30



## CAFETERIA & RESTAURANT FOR LUNCH

- Cafeteria : 10:00-18:00 / Exhibition Hall 3F
- Restaurant for Lunch : 12:00 - 14:00 / Exhibition Hall 2, 1F (Operated by Hotel Inter-burgo EXCO)

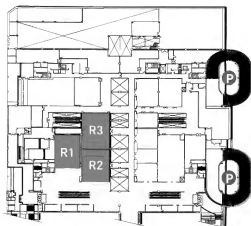


## INTERNET LOUNGE & WIFI

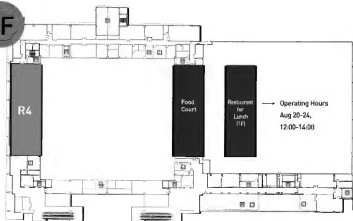
The internet lounge will be located in cafeteria, Exhibition Hall 3F during the Congress and wireless internet (WIFI) will also be available throughout the EXCO.

## Venue Maps

**B1**

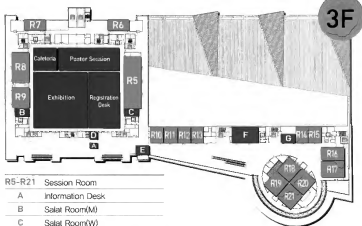


**2F**



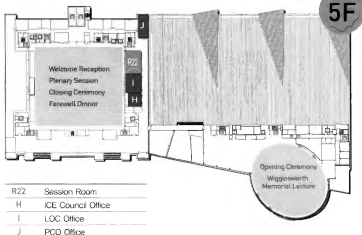
R1-R4 Session Room





R5-R21 Session Room

- A Information Desk
- B Salad Room(M)
- C Salad Room(W)
- D Cloak Room
- E Medical Center
- F Preview Room
- G Press Center



R22 Session Room

- H ICE Council Office
- I LOC Office
- J PCO Office

\* "R" stands for Room

# Accommodation

	No	Hotel	Telephone
Daegu	1	Hotel Inter-Burgo Daegu	(053) 602-7114
	2	Novotel Ambassador Daegu	(053) 604-1101
	3	The Grand Hotel Daegu	(053) 742-0001
	4	Hotel Inter-Burgo EXCO	(053) 380-0114
	5	Saint Western Hotel	(053) 589-6700
	6	Daegu Prince Hotel	(053) 628-1001
	7	Hotel J's	(053) 756-6601
	8	Hotel Daegu	(053) 559-2100
	9	Hotel Ariana	(053) 765-7776
	10	Palgong Park hotel	(053) 985-0808
	11	Palgong Spa Tourist Hotel	(053) 985-8080
	12	Union Tourist hotel	(053) 252-2221
	13	Midus Hotel	(053) 752-6230
	14	Apsan Business Hotel	(053) 625-8118
	15	Hermes Hotel	(053) 764-2200
	16	In the Hotel	(053) 746-0107
Gyeongju	17	Hotel Concorde in Gyeongju	(053) 745-7000
Greenstel	18	Interpark Motel	(053) 381-1704
	19	Gloria Motel	(053) 384-8080
	20	Royalpark-jang Motel	(053) 744-8247
	21	Whang-je Motel	(053) 752-3661
	22	Oasis Motel	(053) 746-5244
	23	Ritz Motel	(053) 753-4976
	24	Chanel Motel	(053) 754-6331
	25	Bail Motel	(053) 743-6538

\* All ICE2012 official motels are authorized their qualities by Daegu Metropolitan City.



# Shuttle Bus Schedule

## Line A ( Palgong Park Hotel & Palgong Spa Tourist Hotel – EXCO )

\*Travel time : 45 mins

Aug 19		Aug 20 - 21		Aug 22		Aug 23		Aug 24	
Palgong → EXCO	EXCO → Hotel	Palgong → EXCO	EXCO → Hotel	Palgong → EXCO	EXCO → Hotel	Palgong → EXCO	EXCO → Hotel	Palgong → EXCO	EXCO → Hotel
15:00	21:00	7:00	17:50	7:00	12:50	7:00	17:50	7:00	17:50
16:00		8:00	18:20	8:00	13:20	8:00	18:20	8:00	18:20
16:30				17:00	21:30				21:30
17:00				17:30					
17:30									

## Line B ( Hotel J's - Motel Area - EXCO )

\*Travel time : 30 mins

Aug 19			Aug 20 - 21			Aug 22			Aug 23			Aug 24		
J's → Motel Area	Motel Area → EXCO	EXCO → Hotel	J's → Motel Area	Motel Area → EXCO	EXCO → Hotel	J's → Motel Area	Motel Area → EXCO	EXCO → Hotel	J's → Motel Area	Motel Area → EXCO	EXCO → Hotel	J's → Motel Area	Motel Area → EXCO	EXCO → Hotel
15:00	15:03	21:00	7:10	7:13	17:50	7:10	7:13	12:50	7:10	7:13	17:50	7:10	7:13	17:50
16:00	16:03		7:20	7:23	18:20	7:20	7:23	13:20	7:20	7:23	18:20	7:20	7:23	18:20
16:30	16:33		8:10	8:13		8:10	8:13	21:30	8:10	8:13		8:10	8:13	21:30
17:00	17:03		8:20	8:23		8:20	8:23		8:20	8:23		8:20	8:23	
17:30	17:33					17:10	17:13							
						17:40	17:43							

\* Following accommodations belong to Motel Area;

Whangje Motel, In the Hotel, Ritz Motel, Oasis Motel, Chanel Motel, Bally Motel, Royal Park Motel

## Line C ( Hotel Inter-Burgo Daegu – EXCO )

\*Travel time : 30 mins

Aug 19		Aug 20 - 21		Aug 22		Aug 23		Aug 24	
Inter-Burgo → EXCO	EXCO → Hotel	Inter-Burgo → EXCO	EXCO → Hotel	Inter-Burgo → EXCO	EXCO → Hotel	Inter-Burgo → EXCO	EXCO → Hotel	Inter-Burgo → EXCO	EXCO → Hotel
15:00	21:00	7:20	17:50	7:20	12:50	7:20	17:50	7:20	17:50
16:00		7:30	18:20	7:30	13:20	7:30	18:20	7:30	18:20
16:30		8:20		8:20	21:30	8:20		8:20	21:30
17:00		8:30		8:30		8:30		8:30	
17:30				17:20					
				17:50					

\* Please be aware that Hotel Inter-Burgo Daegu is different from Hotel Inter-Burgo EXCO, which locates near to the Venue.

## Line D [The Grand Hotel Daegu - Hermes Hotel - Hotel Ariana - EXCO]

\*Travel time : 30 mins

Aug 19				Aug 20 - 21				Aug 22				Aug 23				Aug 24			
Grand → Hermes	Hermes → Ariana	Ariana → EXCO	EXCO → Hotel	Grand → Hermes	Hermes → Ariana	Ariana → EXCO	EXCO → Hotel	Grand → Hermes	Hermes → Ariana	Ariana → EXCO	EXCO → Hotel	Grand → Hermes	Hermes → Ariana	Ariana → EXCO	EXCO → Hotel	Grand → Hermes	Hermes → Ariana	Ariana → EXCO	EXCO → Hotel
15:00	15:05	15:10	21:00	7:00	7:05	7:10	17:50	7:00	7:05	7:10	12:50	7:00	7:05	7:10	17:50	7:00	7:05	7:10	17:50
16:00	16:05	16:10		8:00	8:05	8:10	18:20	8:00	8:05	8:10	13:20	8:00	8:05	8:10	18:20	8:00	8:05	8:10	18:20
16:30	16:35	16:40						17:00	17:05	17:10	21:30								21:30
17:00	17:05	17:10						17:30	17:35	17:40									
17:30	17:35	17:40																	

\* For those who stays in Midus Hotel, please take shuttle bus at Grand Hotel Bus stop at the Main Entrance of Grand Hotel.

## Line E [Apsan Business Hotel - Daegu Prince Hotel - Novotel Daegu - Union Tourist Hotel - EXCO]

\*Travel time : 50 mins

Aug 19					Aug 20 - 21				
Apsan → Prince	Prince → Novotel	Novotel → Union	Union → EXCO	EXCO → Hotel	Apsan → Prince	Prince → Novotel	Novotel → Union	Union → EXCO	EXCO → Hotel
15:00	15:05	15:15	15:25	21:00	7:00	7:05	7:15	7:25	17:50
16:00	16:05	16:15	16:25		8:00	8:05	8:15	8:25	18:20
16:30	16:35	16:45	16:55						
17:00	17:05	17:15	17:25						
17:30	17:35	17:45	17:55						

Aug 22					Aug 23					Aug 24				
Apsan → Prince	Prince → Novotel	Novotel → Union	Union → EXCO	EXCO → Hotel	Apsan → Prince	Prince → Novotel	Novotel → Union	Union → EXCO	EXCO → Hotel	Apsan → Prince	Prince → Novotel	Novotel → Union	Union → EXCO	EXCO → Hotel
7:00	7:05	7:15	7:25	12:50	7:00	7:05	7:15	7:25	17:50	7:00	7:05	7:15	7:25	17:50
8:00	8:05	8:15	8:25	13:20	8:00	8:05	8:15	8:25	18:20	8:00	8:05	8:15	8:25	18:20
17:00	17:05	17:15	17:25	21:30										21:30
17:30	17:35	17:45	17:55											

# Shuttle Bus Schedule

## Line F [ Saint Western Hotel - Hotel Daegu - EXCO ]

\*Travel time : 45 mins

Aug 19			Aug 20 - 21			Aug 22			Aug 23			Aug 24		
Saint ↔ HTL Daegu	HTL Daegu ↔ EXCO	EXCO ↔ Hotel	Saint ↔ HTL Daegu	HTL Daegu ↔ EXCO	EXCO ↔ Hotel	Saint ↔ HTL Daegu	HTL Daegu ↔ EXCO	EXCO ↔ Hotel	Saint ↔ HTL Daegu	HTL Daegu ↔ EXCO	EXCO ↔ Hotel	Saint ↔ HTL Daegu	HTL Daegu ↔ EXCO	EXCO ↔ Hotel
15:00	15:15	21:00	7:10	7:25	17:50	7:10	7:25	12:50	7:10	7:25	17:50	7:10	7:25	17:50
16:00	16:15		8:10	8:25	18:20	8:10	8:25	13:20	8:10	8:25	18:20	8:10	8:25	18:20
16:30	16:45					17:10	17:25	21:30						21:30
17:00	17:15					17:40	17:55							
17:30	17:45													

## Line G [ Hotel Concorde in Gyeongju - EXCO ]

\*Travel time : 80 mins

Aug 19		Aug 20 - 21		Aug 22		Aug 23		Aug 24	
Concorde ↔ EXCO	EXCO ↔ Hotel	Concorde ↔ EXCO	EXCO ↔ Hotel	Concorde ↔ EXCO	EXCO ↔ Hotel	Concorde ↔ EXCO	EXCO ↔ Hotel	Concorde ↔ EXCO	EXCO ↔ Hotel
13:00	21:00	6:30	17:50	6:30	12:50	6:30	17:50	6:30	17:50
15:00		7:30	18:20	7:30	13:20	7:30	18:20	7:30	18:20
16:30				17:00	21:30				21:30
				17:30					

## Line H [ Kyungpook Univ. Jilli-gwan - Hyangto-gwan - EXCO ]

\*Travel time : 25 mins

Aug 20 - 21			Aug 22			Aug 23			Aug 24		
Jilli ↔ Hyangto	Hyangto ↔ EXCO	EXCO ↔ Hotel	Jilli ↔ Hyangto	Hyangto ↔ EXCO	EXCO ↔ Hotel	Jilli ↔ Hyangto	Hyangto ↔ EXCO	EXCO ↔ Hotel	Jilli ↔ Hyangto	Hyangto ↔ EXCO	EXCO ↔ Hotel
7:20	7:25	12:50	7:20	7:25	12:50	7:20	7:25	17:50	7:10	7:13	17:50
8:20	8:25	13:20	8:20	8:25	13:20	8:20	8:25	18:20	7:20	7:23	18:20
17:20	17:25	21:30						21:30	8:10	8:13	21:30
17:50	17:55								8:20	8:23	

# Tour Program

## > Accompanying tour

Price : Free of charge all registered accompanying persons

Meeting & Break-up point : In front of Exhibition Hall 1F, EXCO

Schedule : Aug 21, 23 (either of two days)

\* Please check your pre-arranged schedule at ICE2012 Tour desk located in Exhibition Hall 3F, EXCO.

## > Optional tour

On-site reservation available

Meeting & Break-up point : In front of Exhibition Hall 1F, EXCO

Price & Schedule : see the table below

\* If you have questions regarding Optional Tour, please visit ICE2012 Tour desk located in Exhibition Hall 3F, EXCO.

## > Pre/Post Congress tour

The reservation for pre-congress tour as well as post-congress tour is currently closed.

For those who have joined the Pre/Post tour program, please be in a close contact with the Housing & Tour Bureau to clarify your schedule.

Category	Code	Date	Time	Itinerary	Price
Optional Tour	OT-2	Aug 20 (Mon)	13:30 - 18:00	Donghwasa Temple (Temple Life)	KRW 61,000 (Excl. Lunch)
	OT-5	Aug 21 (Tue)	13:30 - 18:00	Guam Village - Daegu Bangjja Yugi Museum - Paigongsan (Cultural heritage)	KRW 43,000 (Excl. Lunch)
	OT-11	Aug 22 (Wed)	08:30 - 17:30	Seokguram Grotto - Bulguksa Temple - Daeneungwon - Gyeongju National Museum	KRW 80,000 (Incl. Lunch)
	OT-12	Aug 23 (Thu)	13:30 - 18:00	Daegu Yangyeongsil (Yangyengsi Oriental Culture Center - Soriso (Oriental Medicine Skin Care Center))- Seomun Market	KRW 79,000 (Excl. Lunch)
	OT-20	Aug 23 (Thu)	13:30 - 17:30	Daegu National Museum - Seomun Market	KRW 42,000 (Excl. Lunch)
	OT-21	Aug 23 (Thu)	13:30 - 17:30	Daegu Bangjja Yugi Museum - Donghwasa temple	KRW 45,000 (Excl. Lunch)
Accompanying Tour	AT-1 ~ 4	Aug 21(Tue) Aug 23(Thu)	13:30 - 17:30	Yangnyeongsil Oriental Medicine Cultural Center - Youngdodaum	Included in Registration fee

## Official & Special Events

### > Official Events

Opening Ceremony & Wigglesworth Memorial Lecture

Date : Aug 19(Sun) / Time : 17:30-19:00

Place : Auditorium 5F, EXCO

Welcome Reception

Date : Aug 19(Sun) / Time : 19:30-21:00

Place : Convention Hall 5F, EXCO

Gala Dinner

Date : Aug 22(Wed) / Time : 18:30-21:00

Place : Grand Ballroom B1, Hotel Inter-Burgo EXCO

Closing Ceremony & Farewell Dinner

Date : Aug 24(Fri) / Time : 18:00-18:30 / 19:00-21:00

Place : Convention Hall 5F, EXCO

### > Special Event

Organizer Mixer

(hosted by Local Organizing Committee) invited only.

Date : Aug 23(Thu)

Time : 18:00-20:00

Place : Auditorium Lobby 5F, EXCO

4 - 8 August 2013  
O'Reillys Rainforest  
Retreat QLD, Australia

The 6th International symposium  
on the biology and ecology of  
galling arthropods and related  
endophytes

for more information visit:  
[www.6isbegia.org](http://www.6isbegia.org)

Welcoming biologists to ancient Australian rainforests



# Interest Group Meetings

## > August 20(Mon)

### IOBC Group Meeting

(hosted by IOBC)

General Assembly of the International Organization for Biological Control (IOBC) and keynote lecture by Willem Takken (Wageningen University, The Netherlands)

"Can biological control help to eliminate malaria: a case study from Rusinga Island, western Kenya"

Time : 18:00-21:00 Place : R5, 3F, EXCO

### Global Meeting of the Entomological Society Presidents

(Organized by Grayson C. Brown, President, Entomological Society of America and Antonio R. Panizzi, President, Sociedade Entomológica do Brasil)

#### Meeting

Time : 16:00-17:30 Place : Raon Room, 3F, Hotel Inter-Burgo EXCO

#### Reception

Time : 17:30-19:00 Place : Bien Vu, 17F, Hotel Inter-Burgo EXCO

## > August 21(Tue)

### Informal meeting of leaf beetle (sensu lato) enthusiasts

(hosted by Jong Eun Lee and Michael Schmitt)

The meeting shall provide a chance for informal exchange of scientific and personal news, to get into contact with colleagues in a relaxed atmosphere, and to discuss organizational matters of the coming symposia on leaf beetles.

Time : 18:00-20:00 Place : R10, 3F, EXCO

### Annual Business Meeting

(hosted by International Branch of the Entomological Society of America (IB-ESA))

This will constitute the annual business meeting of the IB-ESA for 2012

Time : 18:00-19:00 Place : R19, 3F, EXCO

### ICE Council & LOC Meeting

(hosted by ICE Council)

Time : 18:00-19:00 Place : Blue bell, B1, Hotel Inter-Burgo EXCO

### International Society of Hymenopterists Business Meeting

(hosted by John Heraty, University of California, Riverside)

The International Society of Hymenopterists will hold its annual meeting to discuss the ISH business and publishing model, recognize award recipients and discuss means of increasing student awards. All interested Hymenopterists are welcome.

Time : 18:00-19:30 Place : R5, 3F, EXCO

## > August 22(Wed)

### Luncheon Symposium

(hosted by LG Electronics) Invited only.

Theme : New Development in Mosquito Repellent Technology

Time : 12:30-14:00 Place : R4, 3F, EXCO

## > August 23(Thu)

### LOC & ICE Council Meeting

(hosted by Local Organizing Committee)

Time : 12:30-14:00 Place : Dong Bo Seong, 2F, Hotel Inter-Burgo EXCO

# Plenary Speakers



## Wigglesworth Memorial Lecture

**Stephen Simpson**

Professor, School of Biological Science, University of Sydney, Australia

- Time : Aug 19(Sun) 18:00-19:00

- Title : From individuals to populations: a tale of swarms, cannibals, ageing and human obesity

Sponsored by The Royal Entomological Society

Place : Auditorium, 5F



**Takema Fukatsu**

Group Leader, Professor, National Institute of Advanced Industrial Biology and Technology, Japan

- Time : Aug 20(Mon) 08:00-09:00

- Title : Biodiversity, Symbiosis and Evolution

Place : Convention Hall, 5F



**Thomas W. Scott**

Professor, Director, Department of Entomology, University of California, USA  
Mosquito Research Laboratory, USA

- Time : Aug 21(Tue) 08:00-09:00

- Title : Pathogen transmission dynamics at the human-mosquito interface



**Ilkka Hanski**

Professor, Department of Biological and Environmental Sciences, University of Helsinki, Finland

- Time : Aug 22(Wed) 08:00-09:00

- Title : Habitat loss and fragmentation – What happens to insect populations and species?



**Christian Borgemeister**

Director General and CEO, International Centre of Insect Physiology and Ecology, Kenya

- Time : Aug 23(Thu) 08:00-09:00

- Title : Insect science and poverty alleviation – tales from Africa



**Kongming Wu**

Director Professor, Institute of Plant Protection, Chinese Academy of Agricultural Sciences, China

- Time : Aug 24(Fri) 08:00-09:00

- Title : Ecological Succession of Insect Populations in Bt cotton agroecosystem : a Case Analysis in China

# Program at a Glance

Time	Aug 19 (Sun)	Aug 20 (Mon)	Aug 21 (Tue)	Aug 22 (Wed)	Aug 23 (Thu)	Aug 24 (Fri)	Aug 25 (Sat)
07:00-17:00	Registration	Registration					Post Tour
08:00-09:00		Plenary Session 1	Plenary Session 2	Plenary Session 3	Plenary Session 4	Plenary Session 5	
09:00-10:30		Symposium/ Oral Session	Symposium/ Oral Session	Symposium/ Oral Session	Symposium/ Oral Session	Symposium/ Oral Session	
10:30-11:00		Coffee/Tea Break					
11:00-12:30		Symposium/ Oral Session	Symposium/ Oral Session	Symposium/ Oral Session	Symposium/ Oral Session	Symposium/ Oral Session	
12:30-14:00		Lunch					
14:00-15:30		Symposium/ Oral Session	Symposium/ Oral Session	Social Program (Tour)	Symposium/ Oral Session	Symposium/ Oral Session	
15:30-16:00		Coffee/Tea Break			Coffee/Tea Break		
16:00-17:30		Symposium/ Oral Session	Symposium/ Oral Session		Symposium/ Oral Session	Symposium/ Oral Session	
17:30-18:00	Opening Ceremony & Wigglesworth Memorial Lecture	Interest Group Meetings	Interest Group Meetings	Gala Dinner	Interest Group Meetings	Closing Ceremony & Farewell Dinner	
18:00-19:00							
19:30-21:00	Welcome Reception						
10:00-18:00		Exhibition & Poster Session					

# August 20 (Mon)

Room	B1			2F		R5	R6	R7	R8	R9	R10
	R1	R2	R3	R4							
0900-0900	PLENARY SESSION 1 (CONVENTION HALL SF)										
0900-1030	O101 Taxonomy Coleoptera	S1701 Special Issues Current issues on apiculture	S401 Development and Reproduction Neuropeptides in insect development and reproduction	S1001 Integrated Pest Management Chemical ecology and crop protection	S104 Systematics, Phylogeny and Zoogeography Phylogeny and Evolution of the Lepidoptera	S102 Systematics, Phylogeny and Zoogeography Systematics, biogeography and ecology of Cerambycidae and Buprestidae	S501 Genetics, Genomics and Evolutionary Entomology Comparative and functional genomics of non-Diptera insects	S301 Insect Immunology, Physiology and Neurobiology Hemolymph proteins in immunity	S101 Systematics, Phylogeny and Zoogeography Globalized insect taxonomy in the 21st century : Current accomplishments, future prospects	O401 IPM Population dynamics, Dispersal, Ecology, New control techniques	
1030-1100	COFFEE / TEA BREAK										
1100-1230	O102 Taxonomy Psocoptera	S1701 Special Issues Current issues on apiculture	S401 Development and Reproduction Neuropeptides in insect development and reproduction	S1001 Integrated Pest Management Chemical ecology and crop protection	S104 Systematics, Phylogeny and Zoogeography Phylogeny and Evolution of the Lepidoptera	S102 Systematics, Phylogeny and Zoogeography Systematics, biogeography and ecology of Cerambycidae and Buprestidae	S501 Genetics, Genomics and Evolutionary Entomology Comparative and functional genomics of non-Diptera insects	S301 Insect Immunology, Physiology and Neurobiology Hemolymph proteins in immunity	S101 Systematics, Phylogeny and Zoogeography Globalized insect taxonomy in the 21st century : Current accomplishments, future prospects	O401 IPM Population dynamics, Dispersal, Ecology, New control techniques	
1230-1400	LUNCH										
1400-1530	S1702 Special Issues Pathology & Microbial Control	S1701 Special Issues Current issues on apiculture	S401 Development and Reproduction Neuropeptides in insect development and reproduction	S1002 Integrated Pest Management Biology and control of spotted wing <i>Drosophila</i> , <i>Drosophila suzukii</i>	S104 Systematics, Phylogeny and Zoogeography Phylogeny and Evolution of the Lepidoptera	S103 Systematics, Phylogeny and Zoogeography Marine Insects, Systematics, ecology, phylogeny and zoogeography	S501 Genetics, Genomics and Evolutionary Entomology Comparative and functional genomics of non-Diptera insects	S302 Insect Immunology, Physiology and Neurobiology Immune mediators and cross-talk	S802 Pesticides, GM Crops, Resistance and Toxicology Insecticide resistance: Mechanism and management	O401 IPM Population dynamics, Dispersal, Ecology, New control techniques	
1530-1600	COFFEE / TEA BREAK										
1600-1730	S1702 Special Issues Pathology & Microbial Control	O001 Physiology Insect Immunology		S1002 Integrated Pest Management Biology and control of spotted wing <i>Drosophila</i> , <i>Drosophila suzukii</i>	S104 Systematics, Phylogeny and Zoogeography Phylogeny and Evolution of the Lepidoptera	S103 Systematics, Phylogeny and Zoogeography Marine Insects, Systematics, ecology, phylogeny and zoogeography	S501 Genetics, Genomics and Evolutionary Entomology Comparative and functional genomics of non-Diptera insects (19:00)	S302 Insect Immunology, Physiology and Neurobiology Immune mediators and cross-talk	S802 Pesticides, GM Crops, Resistance and Toxicology Insecticide resistance: Mechanism and management	O401 IPM Population dynamics, Dispersal, Ecology, New control techniques	

\* IOBC Group Meeting: 18.00-21.00

\* Global Meeting of the Entomological Society Presidents: 16.00-17.30 / 17.30-19.00

3F											5F
R11	R12	R13	R14	R15	R16	R17	R18	R19	R20	R21	R22
S702 Insect related Interactions at a Multi-trophic Ecosystem Multitrophic interactions under changing environmental conditions	O103 Taxonomy Diptera	S1301 Medical & Veterinary Entomology Molecular basis of vector- pathogen interactions	S1501 Acarology Bioactive molecules of ticks	S1003 Integrated Pest Management Growing potatoes: a tale of emerging and old pests	S502 Genetics, Genomics and Evolutionary Entomology Insect transgenics: techniques and applications	S801 Conservation, Biodiversity and Climate Change Insect Biodiversity and Global IPM Challenges in Climate Change	S701 Insect related Interactions at a Multi- trophic Ecosystem Phitome- phagous insects: strategies and impacts on plants	S1005 Integrated Pest Management Insect life tables and their application	S1006 Integrated Pest Management Spatial dynamics and movement of insect pests	S1201 Urban, Stored Product and Post Harvest Entomology Current control practices, area wide management projects and traging behaviors of subterranean termites	
S702 Insect related Interactions at a Multi-trophic Ecosystem Interactions under changing environmental conditions	S1101 Insect Biological Control Microbial pesticides (12-45)	S1302 Medical & Veterinary Entomology Forensic entomology	O601 Medical Entomology Medical Entomology: Surveillance & Ecology	S1003 Integrated Pest Management Growing potatoes: a tale of emerging and old pests	S502 Genetics, Genomics and Evolutionary Entomology Insect transgenics: techniques and applications	S801 Conservation, Biodiversity and Climate Change Insect Biodiversity and Global IPM Challenges in Climate Change	S701 Insect related Interactions at a Multi- trophic Ecosystem Phitome- phagous insects: strategies and impacts on plants	S1005 Integrated Pest Management Insect life tables and their application	S1006 Integrated Pest Management Spatial dynamics and movement of insect pests	S1201 Urban, Stored Product and Post Harvest Entomology Current control practices, area wide management projects and traging behaviors of subterranean termites	
S1703 Special Issues Seriiculture	S1102 Insect Biological Control IOBC Global Symposium "International Exchange and Risk Assessment of Biological Control Agents"	S1302 Medical & Veterinary Entomology Forensic entomology	S1502 Acarology Dispersal and behavior of the Acari	S1003 Integrated Pest Management Growing potatoes: a tale of emerging and old pests (14-35)	S502 Genetics, Genomics and Evolutionary Entomology Insect transgenics: techniques and applications	S503 Genetics, Genomics and Evolutionary Entomology Insect mitochondrial genomics	S701 Insect related Interactions at a Multi- trophic Ecosystem Phitome- phagous insects: strategies and impacts on plants	S1005 Integrated Pest Management Insect life tables and their application	S1004 Integrated Pest Management Integrated and biological control of glasshouse pests	S1201 Urban, Stored Product and Post Harvest Entomology Current control practices, area wide management projects and traging behaviors of subterranean termites	S1103 Insect Biological Control Present status and future prospects of biological control in Asia
S1703 Special Issues Seriiculture	S1102 Insect Biological Control IOBC Global Symposium "International Exchange and Risk Assessment of Biological Control Agents"	S1302 Medical & Veterinary Entomology Forensic entomology	S1502 Acarology Dispersal and behavior of the Acari	S801 Pesticides, GM Crops, Resistance and Toxicology Advanced technologies for managing insect pests (15-30)	S502 Genetics, Genomics and Evolutionary Entomology Insect transgenics: techniques and applications	S503 Genetics, Genomics and Evolutionary Entomology Insect mitochondrial genomics (18-30)		O202 Physiology Molecular Entomology (17-40)	S1004 Integrated Pest Management Integrated and biological control of glasshouse pests	O701 Entomology: General Entomology: General 1	S1103 Insect Biological Control Present status and future prospects of biological control in Asia

# August 21 (Tue)

Room	B1			2F		R5	R6	R7	R8	R9	R10
	R1	R2	R3	R4							
0800-0900	PLENARY SESSION 2 (CONVENTION HALL 3F)										
0900-1030	S1401 Invasive Species and Quarantine Ecological impacts of Invasive insects	O403 IPM: Plant Resistance, RNAi, Genomics	O301 Ecology Biodiversity	O203 Physiology Insect Metabolism	S105 Systematics, Phylogeny and Zoogeography Dates and rates: diversification and dating methods and their applications to entomology	S402 Development and Reproduction Photoperiodic induction of diapause and seasonal morphs	S304 Insect Immunology, Physiology and Neurobiology Salivary proteins	S303 Insect Immunology, Physiology and Neurobiology Integrative nutrition: from physiology to ecology and beyond	S106 Systematics, Phylogeny and Zoogeography Phylogeny and evolution of the Psaneoptera	O501 Pathology & Microbial control Pathology & Microbial control	
1030-1100	COFFEE / TEA BREAK										
1100-1230	S1401 Invasive Species and Quarantine Ecological impacts of Invasive insects	O403 IPM: Plant Resistance, RNAi, Genomics	O301 Ecology Biodiversity	O203 Physiology Insect Metabolism	S105 Systematics, Phylogeny and Zoogeography Dates and rates: diversification and dating methods and their applications to entomology	S402 Development and Reproduction Photoperiodic induction of diapause and seasonal morphs	S304 Insect Immunology, Physiology and Neurobiology Salivary proteins	S303 Insect Immunology, Physiology and Neurobiology Integrative nutrition: from physiology to ecology and beyond	S106 Systematics, Phylogeny and Zoogeography Phylogeny and evolution of the Psaneoptera	O501 Pathology & Microbial control Pathology & Microbial control	
1230-1400	LUNCH										
1400-1530	S1402 Invasive Species and Quarantine Ecological attributes of invasive alien species	O404 IPM: Chemical Control I	O301 Ecology Biodiversity	O105 Taxonomy Lepidoptera	S107 Systematics, Phylogeny and Zoogeography Phylogeny and evolution of the Diptera	S403 Development and Reproduction From embryo to metamorphosis: Genes for insect development	S404 Development and Reproduction New complexities in the regulation of insect diapause and cold hardiness	S303 Insect Immunology, Physiology and Neurobiology Integrative nutrition: from physiology to ecology and beyond			
1530-1800	COFFEE / TEA BREAK										
1800-1730	S1402 Invasive Species and Quarantine Ecological attributes of invasive alien species	O404 IPM: Chemical Control I	O302 Ecology Climate change effects	O105 Taxonomy Lepidoptera	S107 Systematics, Phylogeny and Zoogeography Phylogeny and evolution of the Diptera	S403 Development and Reproduction From embryo to metamorphosis: Genes for insect development (1600)	S404 Development and Reproduction New complexities in the regulation of insect diapause and cold hardiness				

\* S504 Co-Hosted by The International Atomic Energy Agency (IAEA)

3F											5F
R11	R12	R13	R14	R15	R16	R17	R18	R19	R20	R21	R22
<b>S104</b> <b>Taxonomy</b> <b>Hymenoptera</b>	<b>S1007</b> <b>Integrated Pest Management</b> Fruit tree IPM	<b>S1303</b> <b>Medical &amp; Veterinary Entomology</b> Impact of climate change and natural disaster in arthropod vector	<b>S1503</b> <b>Acarology</b> Current issues of Tick and Mite Collection, and Identification and Distribution of Holoctenaral Parasites	<b>S504</b> <b>Genetics, Genomics and Evolutionary Entomology</b> Development and evaluation of improved strains of insect pests for sterile insect technique	<b>S505</b> <b>Genetics, Genomics and Evolutionary Entomology</b> Sexual selection and sperm competition: Theories and applications	<b>S601</b> <b>Behavior and Chemical Ecology</b> The prospect of manipulating herbivore-induced plant volatiles to improve the biological control of pest insects	<b>S703</b> <b>Insect related Interactions at a Multi-trophic Ecosystem</b> Next generation study of multitrophic interactions	<b>S1010</b> <b>Integrated Pest Management</b> A landscape view of cultural control	<b>S1029</b> <b>Integrated Pest Management</b> Ecological genetics of crop plants in pest management: From conventional breeding to cisgenic and transgenic crops	<b>S1202</b> <b>Urban, Stored Product and Post Harvest Entomology</b> Stored-product entomology	<b>O405</b> <b>IPM</b> Biological Control-Natural Enemy 1
<b>S104</b> <b>Taxonomy</b> <b>Hymenoptera</b>	<b>S1007</b> <b>Integrated Pest Management</b> Fruit tree IPM	<b>S1303</b> <b>Medical &amp; Veterinary Entomology</b> Impact of climate change and natural disaster in arthropod vector	<b>S1503</b> <b>Acarology</b> Current issues of Tick and Mite Collection, and Identification and Distribution of Holoctenaral Parasites	<b>S504</b> <b>Genetics, Genomics and Evolutionary Entomology</b> Development and evaluation of improved strains of insect pests for sterile insect technique	<b>S505</b> <b>Genetics, Genomics and Evolutionary Entomology</b> Sexual selection and sperm competition: Theories and applications	<b>S601</b> <b>Behavior and Chemical Ecology</b> The prospect of manipulating herbivore-induced plant volatiles to improve the biological control of pest insects	<b>S703</b> <b>Insect related Interactions at a Multi-trophic Ecosystem</b> Next generation study of multitrophic interactions	<b>S1010</b> <b>Integrated Pest Management</b> A landscape view of cultural control	<b>S1029</b> <b>Integrated Pest Management</b> Ecological genetics of crop plants in pest management: From conventional breeding to cisgenic and transgenic crops	<b>S1202</b> <b>Urban, Stored Product and Post Harvest Entomology</b> Stored-product entomology	<b>O405</b> <b>IPM</b> Biological Control-Natural Enemy 1
<b>S1704</b> <b>Special Issues</b> Aquatic: Biodiversity, ecology and environment	<b>S1008</b> <b>Integrated Pest Management</b> Ecological control of regional rice insect pests in integrated pest management protocol	<b>S1304</b> <b>Medical &amp; Veterinary Entomology</b> Emerging and re-emerging mosquito-borne viruses	<b>S1012</b> <b>Integrated Pest Management</b> Recent challenges in IPM of cereal and sugarcane moth borers	<b>S504</b> <b>Genetics, Genomics and Evolutionary Entomology</b> Development and evaluation of improved strains of insect pests for sterile insect technique	<b>S505</b> <b>Genetics, Genomics and Evolutionary Entomology</b> Physiological genomics of the insect midgut (18:00)	<b>S602</b> <b>Behavior and Chemical Ecology</b> Exploiting inducible plant defences in agriculture: possibilities and prospects	<b>S803</b> <b>Pesticides, GM Crops, Resistance and Toxicology</b> The effects of GM crops on non-target organisms	<b>S1011</b> <b>Integrated Pest Management</b> The contribution of IPM to food security in the developing world	<b>S1029</b> <b>Integrated Pest Management</b> Ecological genetics of crop plants in pest management: From conventional breeding to cisgenic and transgenic crops	<b>S1202</b> <b>Urban, Stored Product and Post Harvest Entomology</b> Stored-product entomology	<b>S1104</b> <b>Insect Biological Control</b> Biological control of emerging pests on transgenic crops
<b>S1704</b> <b>Special Issues</b> Aquatic: Biodiversity, ecology and environment	<b>S1008</b> <b>Integrated Pest Management</b> Ecological control of regional rice insect pests in integrated pest management protocol	<b>S1304</b> <b>Medical &amp; Veterinary Entomology</b> Emerging and re-emerging mosquito-borne viruses	<b>S1012</b> <b>Integrated Pest Management</b> Recent challenges in IPM of cereal and sugarcane moth borers	<b>S504</b> <b>Genetics, Genomics and Evolutionary Entomology</b> Development and evaluation of improved strains of insect pests for sterile insect technique (18:00)	<b>S505</b> <b>Genetics, Genomics and Evolutionary Entomology</b> Physiological genomics of the insect midgut (18:00)	<b>S602</b> <b>Behavior and Chemical Ecology</b> Exploiting inducible plant defences in agriculture: possibilities and prospects	<b>S803</b> <b>Pesticides, GM Crops, Resistance and Toxicology</b> The effects of GM crops on non-target organisms	<b>S1011</b> <b>Integrated Pest Management</b> The contribution of IPM to food security in the developing world (18:15)	<b>O702</b> <b>Entomology: General Entomology: General 2</b>	<b>S1202</b> <b>Urban, Stored Product and Post Harvest Entomology</b> Stored-product entomology	<b>S1104</b> <b>Insect Biological Control</b> Biological control of emerging pests on transgenic crops

\* Informal meeting of leaf beetle (*Jassus* spp.) enthusiasts 18:00-20:00

\* Annual Business Meeting 18:00-19:00

\* ICE Council & LOC Meeting 18:00-19:00

\* International Society of Hymenopterists Business Meeting 18:00-19:30

## August 22 (Wed)

Room	B1			2F		R5	R6	R7	R8	R9	R10	
	R1	R2	R3	R4								
0800-0900	PLENARY SESSION 3 (CON)											
0900-1030	S1705 Special Issues Insects for foods, pharmacology, and animal feeds	S1112 Systematics, Phylogeny and Zoo- geography Aphid systematic and evolution; Systematic ecology, phylogeny and zoogeography			S108 Systematics, Phylogeny and Zoo- geography Phylogenomics and the evolution of insects	S109 Systematics, Phylogeny and Zoo- geography From fossils to molecules: Evolution of the stick and leaf insects	S804 Pesticides, GM Crops, Resistance and Toxicology Counter- measure Strategies for Insect Resistance to Insecticides	S305 Insect Immunology, Physiology and Neurobiology Neuropeptides and GPCR	S1105 Insect Biological Control The Status Entomop- athogenic Nematodes in the BioControl Ushering in the New Era	S405 Development and Reproduction Hormonal control of development		
1030-1100	COFFEE / TEA BREAK											
1100-1230	S1705 Special Issues Insects for foods, pharmacology, and animal feeds (12:45)	S1112 Systematics, Phylogeny and Zoo- geography Aphid systematic and evolution; Systematic ecology, phylogeny and zoogeography			S108 Systematics, Phylogeny and Zoo- geography Phylogenomics and the evolution of insects	S109 Systematics, Phylogeny and Zoo- geography From fossils to molecules: Evolution of the stick and leaf insects	S804 Pesticides, GM Crops, Resistance and Toxicology Counter- measure Strategies for Insect Resistance to Insecticides	S305 Insect Immunology, Physiology and Neurobiology Neuropeptides and GPCR	S1105 Insect Biological Control The Status Entomop- athogenic Nematodes in the BioControl Ushering in the New Era	S405 Development and Reproduction Hormonal control of development (12:45)		
1230-1400				Luncheon Symposium by LG Electronics		LUNCH						

XXIV International Congress

\* S1705 Sponsored by Ministry for Food, Agriculture, Forestry and Fisheries of Korea

\* Luncheon Symposium hosted by LG Electronics (R4) 12:30-14:00



3F											5F
R11	R12	R13	R14	R15	R16	R17	R18	R19	R20	R21	R22
(ON HALL 5F)											
S507 Genetics, Genomics and Evolutionary Entomology Small non- coding RNAs and genome expression	S508 Genetics, Genomics and Evolutionary Entomology Evolutionary dynamics of insect acoustic communication	S1305 Medical & Veterinary Entomology Symbiotic microor- ganisms associated with medical, hygienic and veterinary pest arthropods	S1504 Acarology Seasonal adaptations of the Acari	S516 IAEA Group Meeting	S509 Genetics, Genomics and Evolutionary Entomology Musca domestica genetics and genomics	S604 Behavior and Chemical Ecology New science for sustainable insect pest control based on chemical ecology	S603 Behavior and Chemical Ecology Insect-host interactions: sensory and chemical profiles on host specificity	S1013 Integrated Pest Management Pattern recognition and sensing systems for IPM	S704 Insect related interactions at a Multi- trophic Ecosystem Plant-mediated effects on the ecology and evolution of multitrophic interactions	O303 Ecology Multitrophic interaction & invasion Ecology	S1106 Insect Biological Control Insect pathology
S507 Genetics, Genomics and Evolutionary Entomology Small non- coding RNAs and genome expression	S508 Genetics, Genomics and Evolutionary Entomology Evolutionary dynamics of insect acoustic communication (13:30)	S1305 Medical & Veterinary Entomology Symbiotic microor- ganisms associated with medical, hygienic and veterinary pest arthropods	O426 IPM Chemical Control 2 (12:40)	S516 IAEA Group Meeting	S509 Genetics, Genomics and Evolutionary Entomology Musca domestica genetics and genomics	S604 Behavior and Chemical Ecology New science for sustainable insect pest control based on chemical ecology	S603 Behavior and Chemical Ecology Insect-host interactions: sensory and chemical profiles on host specificity	S1013 Integrated Pest Management Pattern recognition and sensing systems for IPM (12:45)	S704 Insect related interactions at a Multi- trophic Ecosystem Plant-mediated effects on the ecology and evolution of multitrophic interactions	O303 Ecology Multitrophic interaction & invasion Ecology	S1106 Insect Biological Control Insect pathology

of Entomology

# August 23 (Thu)

Room	B1									
	R1	R2	R3	R5	R6	R7	R8	R9	R10	R11
0800-0900	PLENARY SESSION 4 (CONVENTION HALL 5F)									
0900-1030	S1484 <b>Invasive Species and Quarantine</b> Biological control: Benefit Sharing and the balance between benefits and risks	S1485 <b>Invasive Species and Quarantine</b> Recent issues on exotic insects travelling through the continents	S1403 <b>Invasive Species and Quarantine</b> Biotic interactions in the context of biological invasion	S110 <b>Systematics, Phylogeny and Zoogeography</b> Biogeography: challenges to a biological synthesis	O304 <b>Ecology Behavior &amp; Chemical Ecology</b>	S805 <b>Pesticides, GM Crops, Resistance and Toxicology</b> RNAi: Applications and considerations	S306 <b>Insect Immunology, Physiology and Neurobiology</b> The role of immunity in host-pathogen interactions	S201 <b>Morphology and Ultrastructure</b> Insect flight and migration: aerial performance in a changing world	S406 <b>Development and Reproduction</b> Evolution and development of integrated phenotypes	S510 <b>Genetics, Genomics and Evolutionary Entomology</b> Biorobotics and the next-gen revolution
1030-1100	COFFEE / TEA BREAK									
1100-1230	S1404 <b>Invasive Species and Quarantine</b> Biological control: Benefit Sharing and the balance between benefits and risks	S1405 <b>Invasive Species and Quarantine</b> Recent issues on exotic insects travelling through the continents	S1403 <b>Invasive Species and Quarantine</b> Biotic interactions in the context of biological invasion	S110 <b>Systematics, Phylogeny and Zoogeography</b> Biogeography: challenges to a biological synthesis	O304 <b>Ecology Behavior &amp; Chemical Ecology</b>	S805 <b>Pesticides, GM Crops, Resistance and Toxicology</b> RNAi: Applications and considerations	S306 <b>Insect Immunology, Physiology and Neurobiology</b> The role of immunity in host-pathogen interactions	S201 <b>Morphology and Ultrastructure</b> Insect flight and migration: aerial performance in a changing world	S406 <b>Development and Reproduction</b> Evolution and development of integrated phenotypes	S510 <b>Genetics, Genomics and Evolutionary Entomology</b> Biorobotics and the next-gen revolution
1230-1400	LUNCH									
1400-1530	S1404 <b>Invasive Species and Quarantine</b> Biological control: Benefit Sharing and the balance between benefits and risks	S1405 <b>Invasive Species and Quarantine</b> Recent issues on exotic insects travelling through the continents	S1706 <b>Special Issues</b> Women in Entomology—Challenges and Achievements in a New Era	S110 <b>Systematics, Phylogeny and Zoogeography</b> Biogeography: challenges to a biological synthesis	O106 <b>Taxonomy Insect Taxonomy: Miscellaneous Orders</b>	S308 <b>Insect Immunology, Physiology and Neurobiology</b> Neuronal system in control of physiology	S307 <b>Insect Immunology, Physiology and Neurobiology</b> Insect Cuticle	S201 <b>Morphology and Ultrastructure</b> Insect flight and migration: aerial performance in a changing world	O602 <b>Medical Entomology</b> Control of Medical Insects	S510 <b>Genetics, Genomics and Evolutionary Entomology</b> Biorobotics and the next-gen revolution
1530-1800	COFFEE / TEA BREAK									
1800-1730	S1404 <b>Invasive Species and Quarantine</b> Biological control: Benefit Sharing and the balance between benefits and risks		S1706 <b>Special Issues</b> Women in Entomology—Challenges and Achievements in a New Era	S111 <b>Systematics, Phylogeny and Zoogeography</b> Biology of Chrysomelidae (17:45)	O106 <b>Taxonomy Insect Taxonomy: Miscellaneous Orders</b>	S308 <b>Insect Immunology, Physiology and Neurobiology</b> Neuronal system in control of physiology (18:00)	S307 <b>Insect Immunology, Physiology and Neurobiology</b> Insect Cuticle	O402 <b>IPM</b> Nuisance Chemistry (17:40)	O602 <b>Medical Entomology</b> Control of Medical Insects	S510 <b>Genetics, Genomics and Evolutionary Entomology</b> Biorobotics and the next-gen revolution

\* Organizer Mixer: 18:00-20:00

\* LOC & ICE Council Meeting: 12:30-14:00

3F										5F
R12	R13	R14	R15	R16	R17	R18	R19	R20	R21	R22
S1014 <b>Integrated Pest Management</b> Sink bugs: their expansion, pest status, and control tactics	S1306 <b>Medical &amp; Veterinary Entomology</b> Insecticide resistance in medically important insects (mosquitoes, bed bugs, lice...)	S511 <b>Genetics, Genomics and Evolutionary Entomology</b> Advances in symbiosis	S516 <b>IAEA Group Meeting</b>	S512 <b>Genetics, Genomics and Evolutionary Entomology</b> Evolutionary genomics of social behavior	S605 <b>Behavior and Chemical Ecology</b> Chemically-mediated host plant selection, a complex and challenging topic	S1016 <b>Integrated Pest Management</b> Population genetics in the service of pest management	S1017 <b>Integrated Pest Management</b> Rice hopppers: Problems, surveillance, and management strategies	S1001 <b>Social Insects</b> Recent advances in biology of eusocial and subsocial insects	S1203 <b>Urban, Stored Product and Post Harvest Entomology</b> Pest ants of urban environments	S1107 <b>Insect Biological Control</b> Can we better select and manipulate biological control agents when we know their genomics?
S1014 <b>Integrated Pest Management</b> Sink bugs: their expansion, pest status, and control tactics	O305 <b>Ecology</b> Genetics, Genomics, Pollution, Symbiosis & Prey-predator interaction	S511 <b>Genetics, Genomics and Evolutionary Entomology</b> Advances in symbiosis	S516 <b>IAEA Group Meeting</b>	S512 <b>Genetics, Genomics and Evolutionary Entomology</b> Evolutionary genomics of social behavior (12-45)	S605 <b>Behavior and Chemical Ecology</b> Chemically-mediated host plant selection, a complex and challenging topic	S1016 <b>Integrated Pest Management</b> Population genetics in the service of pest management	S1017 <b>Integrated Pest Management</b> Rice hopppers: Problems, surveillance, and management strategies	S1001 <b>Social Insects</b> Recent advances in biology of eusocial and subsocial insects	S1203 <b>Urban, Stored Product and Post Harvest Entomology</b> Pest ants of urban environments	S1107 <b>Insect Biological Control</b> Can we better select and manipulate biological control agents when we know their genomics?
S1015 <b>Integrated Pest Management</b> The role of present and future genetically-engineered insect-resistant crops in IPM	O305 <b>Ecology</b> Genetics, Genomics, Pollution, Symbiosis & Prey-predator interaction	S511 <b>Genetics, Genomics and Evolutionary Entomology</b> Advances in symbiosis	S516 <b>IAEA Group Meeting</b>	S1307 <b>Medical &amp; Veterinary Entomology</b> Bartonella in arthropod vectors	S606 <b>Behavior and Chemical Ecology</b> Mechanisms of insect odorant detection	S1016 <b>Integrated Pest Management</b> Population genetics in the service of pest management	S1017 <b>Integrated Pest Management</b> Rice hopppers: Problems, surveillance, and management strategies	O204 <b>Physiology Insect Reproduction</b>	S1204 <b>Urban, Stored Product and Post Harvest Entomology</b> Novel approaches for urban pest management	S902 <b>Conservation, Biodiversity and Climate Change Insect</b> Biodiversity Conservation
S1015 <b>Integrated Pest Management</b> The role of present and future genetically-engineered insect-resistant crops in IPM	O305 <b>Ecology</b> Genetics, Genomics, Pollution, Symbiosis & Prey-predator interaction	S511 <b>Genetics, Genomics and Evolutionary Entomology</b> Advances in symbiosis	S516 <b>IAEA Group Meeting</b>	S1307 <b>Medical &amp; Veterinary Entomology</b> Bartonella in arthropod vectors	S606 <b>Behavior and Chemical Ecology</b> Mechanisms of insect odorant detection	S1016 <b>Integrated Pest Management</b> Population genetics in the service of pest management	S1017 <b>Integrated Pest Management</b> Rice hopppers: Problems, surveillance, and management strategies	O203 <b>Physiology Insect Neurophysiology</b>	S1204 <b>Urban, Stored Product and Post Harvest Entomology</b> Novel approaches for urban pest management	S902 <b>Conservation, Biodiversity and Climate Change Insect</b> Biodiversity Conservation

# August 24 (Fri)

Room	B1									
	R1	R2	R3	R5	R6	R7	R8	R9	R10	R11
0800-0900	PLENARY SESSION 5 (CONVENTION HALL SF1)									
0900-1030	O306 <b>Ecology</b> Life history & Population	S605 <b>Pesticides, GM Crops, Resistance and Toxicology</b> Botanical Insecticides: Biological, biochemical and agricultural aspects	S407 <b>Development and Reproduction</b> Molecular aspects of insect reproduction	S115 <b>Systematics, Phylogeny and Zoogeography</b> Origin and early splits of hexapods	S113 <b>Systematics, Phylogeny and Zoogeography</b> Evolution of the Acoelata and the rise of Eusociality	S309 <b>Insect Immunology, Physiology and Neurobiology</b> Insect sensory neurobiology	O603 <b>Medical Entomology</b> Physiology of Medical Insects	S302 <b>Morphology and Ultrastructure</b> Mechanisms of regulation of growth rate and size and shape in insects	S705 <b>Insect related interactions at a Multi-trophic Ecosystem</b> Evolutionary ecology and biocystematics of gall-inducing arthropods and their associates	S513 <b>Genetics, Genomics and Evolutionary Entomology</b> Insects and biobots
1030-1100	COFFEE / TEA BREAK									
1100-1230	O306 <b>Ecology</b> Life history & Population	S605 <b>Pesticides, GM Crops, Resistance and Toxicology</b> Botanical Insecticides: Biological, biochemical and agricultural aspects	S407 <b>Development and Reproduction</b> Molecular aspects of insect reproduction	S115 <b>Systematics, Phylogeny and Zoogeography</b> Origin and early splits of hexapods	S113 <b>Systematics, Phylogeny and Zoogeography</b> Evolution of the Acoelata and the rise of Eusociality	S309 <b>Insect Immunology, Physiology and Neurobiology</b> Insect sensory neurobiology (12-45)	O603 <b>Medical Entomology</b> Physiology of Medical Insects	S302 <b>Morphology and Ultrastructure</b> Mechanisms of regulation of growth rate and size and shape in insects	S705 <b>Insect related interactions at a Multi-trophic Ecosystem</b> Evolutionary ecology and biocystematics of gall-inducing arthropods and their associates	S513 <b>Genetics, Genomics and Evolutionary Entomology</b> Insects and biobots
1230-1400	LUNCH									
1400-1530	O306 <b>Ecology</b> Life history & Population		S407 <b>Development and Reproduction</b> Molecular aspects of insect reproduction	S116 <b>Systematics, Phylogeny and Zoogeography</b> Biological transitions in the Hymenoptera: a phylogenetic perspective	S114 <b>Systematics, Phylogeny and Zoogeography</b> Phylogeny and evolution of the Coleoptera				S705 <b>Insect related interactions at a Multi-trophic Ecosystem</b> Evolutionary ecology and biocystematics of gall-inducing arthropods and their associates	S514 <b>Genetics, Genomics and Evolutionary Entomology</b> Genomics and functional genomics of non-Drosophila Diptera insects
1530-1600	COFFEE / TEA BREAK									
1600-1730	O306 <b>Ecology</b> Life history & Population			S116 <b>Systematics, Phylogeny and Zoogeography</b> Biological transitions in the Hymenoptera: a phylogenetic perspective	S114 <b>Systematics, Phylogeny and Zoogeography</b> Phylogeny and evolution of the Coleoptera					S514 <b>Genetics, Genomics and Evolutionary Entomology</b> Genomics and functional genomics of non-Drosophila Diptera insects

3F										5F
R12	R13	R14	R15	R16	R17	R18	R19	R20	R21	R22
S515 Genetics, Genomics and Evolutionary Entomology RNAi methods for controlling insects and their pathogens	S1308 Medical & Veterinary Entomology Malaria vector mosquitoes in Asia and Africa	S607 Behavior and Chemical Ecology Semiachemical application: from sex to alarm	S516 IAEA Group Meeting	S706 Insect related Interactions at a Multi-trophic Ecosystem Insects in forest litter and woody debris	S1018 Integrated Pest Management Management of migratory pests	Q208 Physiology Insect Physiology: Methamorphosis, Hormone & Pheromone	S1019 Integrated Pest Management Ecological modeling for IPM	Q703 Entomology: General Entomology : General 3	S1205 Urban, Stored Product and Post Harvest Entomology Codonox management - Challenges and new innovations	O407 IPM Biological Control-Natural Enemy 2
S515 Genetics, Genomics and Evolutionary Entomology RNAi methods for controlling insects and their pathogens (13:00)	S1308 Medical & Veterinary Entomology Malaria vector mosquitoes in Asia and Africa	S1505 Acarology Ecology and behavior of soil-inhabiting mites (12:45)	S516 IAEA Group Meeting	S706 Insect related Interactions at a Multi-trophic Ecosystem Insects in forest litter and woody debris	S1018 Integrated Pest Management Management of migratory pests	Q206 Physiology Insect Physiology: Methamorphosis, Hormone & Pheromone	S1019 Integrated Pest Management Ecological modeling for IPM	Q703 Entomology: General Entomology : General 3		O407 IPM Biological Control-Natural Enemy 2
	S1308 Medical & Veterinary Entomology Malaria vector mosquitoes in Asia and Africa	S1508 Acarology Agricultural Acarology - invasion and expansion	S516 IAEA Group Meeting	S903 Conservation, Biodiversity and Climate Change Insect biodiversity in the changing world	S1018 Integrated Pest Management Management of migratory pests	Q208 Physiology Insect Physiology: Methamorphosis, Hormone & Pheromone	S608 Behavior and Chemical Ecology Biologically-derived bioactive compounds: insecticides, repellents, attractants and antifeedants		S1206 Urban, Stored Product and Post Harvest Entomology Bed bug resurgence and management - a global perspective	S1108 Insect Biological Control Biodiversity and biological control
	S1507 Acarology Internal morphology and ultrastructure of mites	S1506 Acarology Agricultural Acarology - invasion and expansion	S516 IAEA Group Meeting	S903 Conservation, Biodiversity and Climate Change Insect biodiversity in the changing world (18:00)			S608 Behavior and Chemical Ecology Biologically-derived bioactive compounds: insecticides, repellents, attractants and antifeedants		S1206 Urban, Stored Product and Post Harvest Entomology Bed bug resurgence and management - a global perspective	S1108 Insect Biological Control Biodiversity and biological control



# NIBR

Hub of Conserving North-East Asian Biodiversity



- Mission\_To better preserve and wisely use biological resources by expanding our knowledge of indigenous species
- Vision\_To become a leading biological research institute contributing to green growth and biodiversity conservation

- ✓ NIBR is at the center of research and conservation of biodiversity, discovering native species inhabiting the Korean peninsula and securing national sovereignty over them.
- ✓ NIBR is at the hub of discovering and accumulating useful genetic resources and natural substances to promote and support biological industry based on biotechnology.
- ✓ NIBR is at the heart of biodiversity education and exhibition of Korean native species, sharpening awareness on the values of biological resources and the importance of biodiversity conservation.
- ✓ NIBR is at the forefront of global competition to secure useful biological genetic resources by diversifying its environmental diplomacy.



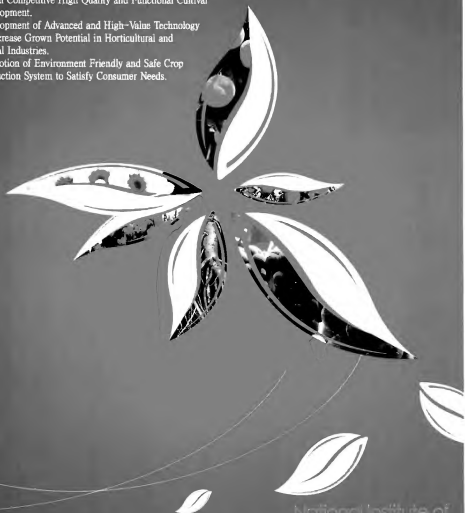
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# Symposium

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# Symposium

## Section 1 Systematics, Phylogeny and Zoogeography

Conveners: Ho-Yeon Han (Republic of Korea), John Heraty (U.S.A.)

### S 101

Globalized insect taxonomy in the 21st century :

Current accomplishments, future prospects

Symposium Organizers : Matthew Buffington (U.S.A.), John LaSalle (Australia), Shaun Winterton (U.S.A.)

Room 9

August 20, Monday

Code No.	Presentation Title Authors, Presenting author	Time
S101M01	Changing the way we describe biodiversity <i>Andrew R. Deans, Matthew J. Yoder, James P. Balhoff, Matthew A. Berto, Istvan Mikó, Katja C. Selmann, Matthew A. Bertone</i>	09:00-09:30
S101M02	vSysLab: A platform for development of monographs for the digital future of taxonomy <i>Norman F. Johnson</i>	09:30-09:45
S101M03	Cybertaxonomy of species rich clades using character matrices as data repositories and natural language parsing for rapid publication of species descriptions <i>Shaun Winterton</i>	09:45-10:00
S101M04	Scratchpad virtual research environments: Making your data work for you <i>Vincent Stuart Smith, Susan Rycraft, Irma Brake, Ed Baker, Ben Scott, Laurence Livermore, Dave Roberts</i>	10:00-10:15
S101M05	Species file software: Its past, present and the future <i>Ralph Edward DeWalt, David C. Eades, Matthew Yoder</i>	10:15-10:30
Coffee/Tea Break		10:30-11:00
S101M06	An integration of cryobanking and web-based image recognition systems for systematic studies and curation <i>Jen-Min Yao, Wen-Bin Yeh, Yaw-Syan Fu, Mei-Ling Chan, Man-Miao Yang</i>	11:00-11:15
S101M07	Global genome initiative: Building a synoptic collection of earth's genomic resources <i>Sean Gary Brady</i>	11:15-11:30
S101M08	PBI and beyond databasing and the heteropteran community <i>Christiane Weirauch, Randolf T. Schuh</i>	11:30-11:45
S101M09	From field to screen and beyond: New methods for the collection, curation and illustration of parasitic Hymenoptera (Insecta) <i>Matthew Buffington, Michael Gates</i>	11:45-12:00
S101M10	Remote microscopy: A success story in Australian and New Zealand plant biosecurity <i>Michael Thompson</i>	12:00-12:15
Lunch		12:30-14:00

### S 102

Systematics, biogeography and ecology of Cerambycidae and Buprestidae

Symposium Organizers : Qiao Wang (New Zealand), Steve Lingafelter (U.S.A.)

Room 6

August 20, Monday

Code No.	Presentation Title Authors, Presenting author	Time
S102M01	Making scents of it all: Volatile pheromones of the Cerambycidae <i>Ann Marie Ray, Ian Swift, Lawrence M. Hanks, Jocelyn G. Millar</i>	09:00-09:15
S102M02	Observational notes on the endophallus of Cerambycidae: Comparing everted and non-everted conditions <i>Junsuke Yamasaki, Nobuo Obayashi</i>	09:15-09:30
S102M03	Cerambycidae of Bolivia (Coleoptera: Cerambycidae) <i>Steven Wayne Lingafelter, James E. Woppe</i>	09:30-09:45
S102M04	Preliminary findings into the morphology and systematics of Onciderini (Cerambycidae: Lamiinae) <i>Eugenia H. Neaves, Kelly B. Miller</i>	09:45-10:00

Code No.	Presentation Title Authors_Presenting author	Time
S102M05	Cerambycidae of North Vietnam <i>Eduard Vives, Steven Wayne LaSalle, Pham Hong Thu</i>	10:00-10:15
S102M06	The longhorned beetles of the Itatiaia National Park, Rio de Janeiro State, Brazil <i>Marcelo Laura Monne, Miguel Ángel Monne</i>	10:15-10:30
	Coffee/Tea Break	10:30-11:00
S102M07	Cerambycidae of Brazilian tropical savanna: Diversity and endemism <i>Marcelo Laura Monne Freire, Vanessa Souza Machado, Ivan Pêffo Botero</i>	11:00-11:15
S102M08	Phylogeny of the invasive <i>Agrilus planipennis</i> Fairmaire (emerald ash borer - EAB) and its relatives (Coleoptera: Buprestidae) <i>Maria Lourdes Chamarra, Eduard Jendek</i>	11:15-11:30
S102M09	Diversity of the buprestid beetles of the Korean peninsula (Coleoptera: Buprestidae) <i>Jun-Gu Lee</i>	11:30-11:45
S102M10	Pseudocryptic speciation of <i>Chrysocroa fulgidissima</i> (Coleoptera: Buprestidae) with two new species from Korea, China and Vietnam <i>Tae Man Han, Tae Hwa Kang, Jongcheol Jeng, Young Bo Lee, Hye Jiwng Chung, Sangyeul Park, Seungwhan Lee, Ki Gyoung Kim, Hae-Chul Park</i>	11:45-12:00
	Lunch	12:30-14:00

## S 103

Marine Insects: Systematics, ecology, phylogeny and zoogeography  
Symposium Organizers : Kee-Jeong Ahn (Republic of Korea), Lanna Cheng (U.S.A.)

## Room 6

August 20, Monday

Code No.	Presentation Title Authors_Presenting author	Time
S103M01	Marine Entomology - Then and Now <i>Lanna Cheng</i>	14:00-14:15
S103M02	Distribution of the ocean-skater <i>Halobates sericeus</i> and paleo-oceanography <i>Sarah Sin Tong Lee, Lanna Cheng, Folie Spiering</i>	14:15-14:30
S103M03	Temperature tolerance of oceanic sea skaters, <i>Halobates</i> (Heteroptera: Gerridae), and ocean dynamics <i>Tetsuo Harada, Shiro Takenaka, Takao Sakamoto, Yuki Osumi, Takao Inoue, Mitsuru Nakaya, Chiharu Katagiri</i>	14:30-14:45
S103M04	Ecology of three endangered sea skaters (Heteroptera: Gerridae) in Japan <i>Terumi Iwawa, Yuch Nishio, Sugihiko Hoshizaki, Hidetaka Ushibe</i>	14:45-15:00
S103M05	Ecology, distribution and molecular phylogeny of the marine midge <i>Pantomyia</i> (Diptera: Chironomidae) <i>Danwei Huang, Lanna Cheng</i>	15:00-15:15
S103M06	Live with the rhythm of the tides: Evolution of local adaptations in adult emergence time of the marine midge <i>Clunio marinus</i> (Diptera: Chironomidae) <i>Tabias S. Kaiser</i>	15:15-15:30
	Coffee/Tea Break	15:30-16:00
S103M07	A marine insect that counts - Mechanism of Circa-semilunar emergence rhythm of <i>Pantomyia oceanica</i> (Diptera: Chironomidae) <i>Keryeo Soong, Ai-Hwa Chang</i>	16:00-16:15
S103M08	Zoogeography of coastal marine Staphylinidae (Coleoptera) <i>J. Howard Frank, Kee-Jeong Ahn</i>	16:15-16:30
S103M09	Phylogeny of the marine littoral genus <i>Coffus</i> (Coleoptera: Staphylinidae) <i>Mi-Jeong Jeon, Kee-Jeong Ahn</i>	16:30-16:45
S103M10	Molecular phylogeny and coastal habitat evolution of the genus <i>Aleochara</i> (Coleoptera: Staphylinidae) <i>Jeong-Hun Song, Kee-Jeong Ahn</i>	16:45-17:00
S103M11	Histeridae, Salpingidae and Hydrophilidae (Coleoptera) on seashore of Japan <i>Masahiro Ohara, Nana Kobayashi</i>	17:00-17:15
S103M12	Concluding remarks <i>Kee-Jeong Ahn</i>	17:15-17:30

## Room 5

August 20, Monday

Code No.	Presentation Title Authors, Presenting author	Time
S104M01	Elucidating Lepidoptera evolution: A tale of two approaches <i>Niels Peder Kristensen</i>	09:00-09:30
S104M02	From soil to tree: the ground plan of the lepidopteran larval trunk, and notable early deviations <i>Steen Thorleif Dupont</i>	09:30-09:45
S104M03	More genes, more taxa, more questions? Inching towards a molecular phylogeny of Lepidoptera <i>Andreas Zwick, The Lepidoptera Consortium (genus to species)</i>	09:45-10:00
S104M04	On the phylogenetic affinities of some enigmatic Lepidoptera <i>Marko Mutanen, Martin Hekkala, Lijun Ren</i>	10:00-10:15
S104M05	Getting a sense of time for massive radiations in Lepidoptera <i>Niklas Wahlberg</i>	10:15-10:30
	Coffee/Tea Break	10:30-11:00
S104M06	Progress toward fossil and molecular dating for the Lepidoptera Tree of Life <i>Jae-Chwan Sohn, Donald Davis, Charles Mitton, Jerome Bejer, Michael Cummings</i>	11:00-11:15
S104M07	Hepialoidea revisited in the light of the discovery of a new higher-level taxon <i>Thomas Johannes Simonsen, Niels Peder Kristensen</i>	11:15-11:30
S104M08	Phylogeny of the lower Heteroneura: A bunch of tiny leafminers, gallers and flower feeders <i>Erik J. Van Nieukerken, Donald R. Davis, The Lepidoptera Consortium, Douglas Britton</i>	11:30-11:45
S104M09	Acanthopteroctetidae and their importance for understanding the early evolutionary history of Lepidoptera <i>Jadranka Rota</i>	11:45-12:00
S104M10	20 million years of evolution in Hawaii's most diverse genus, <i>Hypsimacra</i> (Cosmopterididae) <i>Daniel Rubinfeld</i>	12:00-12:15
S104M11	Phylogenetic relationships of Gelechiidae (Lepidoptera) <i>Sangmi Lee</i>	12:15-12:30
	Lunch	12:30-14:00
S104M12	Phylogenetic relationships of Tortricidae - the scene from root to fruit <i>Richard Lee Brown, Joaquin Barrios, Saraam Lee</i>	14:00-14:15
S104M13	Non-synonymous changes and increased gene sampling improves phylogenetic estimates for higher-level groups within leaf-mining moths and relatives (Lepidoptera: Gracillariidae) <i>Akito Yuki Kawahara, Brian Ohlert, Atsushi Kawakita, Naoko Ikegami, Charles Mitton, Michael Cummings, Donald Davis, David Wojcik, Jarate De Prins, Carlos Lopez Vaamonde</i>	14:15-14:30
S104M14	The evolutionary signal obtained from Afrotropical taxa might significantly change our traditional understanding of the global diversity pattern and phylogeny of Lepidoptera <i>Jarate De Prins</i>	14:30-14:45
S104M15	Evolution of pollination behavior and mutualism in <i>Epicephala</i> (Gracillariidae) <i>Atsushi Kawakita</i>	14:45-15:00
S104M16	The genetics of host shifting in a leaf-mining moth <i>Acrocercops transecta</i> (Gracillariidae) <i>Issei Ohshima</i>	15:00-15:15
S104M17	Ever since Kyrki: A molecular phylogeny for Yponomeutoidea (Lepidoptera, Ditrysia) with new insights into their evolutionary history <i>Jae-Chwan Sohn, Donald Davis, Jerome Bejer, Charles Mitton, Jean-François Landry, Andreas Zwick, Michael Cummings</i>	15:15-15:30
	Coffee/Tea Break	15:30-16:00
S104M18	A preliminary phylogenetic framework of Chalcosiinae (Lepidoptera: Zygaenoidea, Zygaenidae) and the evolution of chemical defense and mimicry <i>Shen-Hann Yen, Chio-Paoan Wu</i>	16:00-16:15

Code No.	Presentation Title Authors, Presenting author	Time
S104M19	A molecular phylogeny for the pyraloid moths (Lepidoptera: Pyraloidea) and its implications for higher-level classification <i>Jerome C. Regier, Charles Mitter, Maria Alma Solis, James E. Hayden, Bernard Landry, Matthias Nuss, Thomas Johannes Simonsen, Shee-Horn Yen, Andreas Zwick, Michael P. Cummings</i>	16:15-16:30
S104M20	Phylogenetic and comparative studies of tiger moths (Lepidoptera: Erebidiae) <i>Jennifer M. Zaspel, Taylor Ward, Stacey Coy, Kendra Catanova, Susan Weiler</i>	16:30-16:45
S104M21	Repeated evolution of early and late winter geometrid moths <i>Satoshi Yamamoto, Eugene A. Benjaev, Teiji Sato</i>	16:45-17:00
S104M22	Biogeography of the Pedalioidinae complex: Are Pedalioides complex genera consequence of horizontal or vertical events of reproductive isolation? <i>Giovanny Fagua, Monica Higuera, Luz Angela Galindo-Leva</i>	17:00-17:15
S104M23	Molecular systematics of the butterfly tribe Preponini (Nymphalidae: Charaxinae) <i>Elena Ortiz-Acevedo, Keith R. Willmott</i>	17:15-17:30

## S 105

## Dates and rates: Diversification and dating methods and their applications to entomology

Symposium Organizers : Sean Brady(U.S.A.), Jessica L. Ware(U.S.A.)

## Room 5

August 21, Tuesday

Code No.	Presentation Title Authors, Presenting author	Time
S105TU01	Timing the diversification of beetles (Coleoptera) <i>Duane D. McKenna, Alex Wild, Kojun Kanda, David Maddison, Brian D. Farrell</i>	09:00-09:30
S105TU02	Evolution of cleptoparasitic strategy in the bee family Megachilidae <i>Jessica R. Litman, Terry L. Griswold, Bryan N. Danforth</i>	09:30-10:00
S105TU03	Divergence time estimates for therevoid flies (Diptera: Asiloidea) <i>Shaun Winterton, Jessica Ware</i>	10:00-10:30
	Coffee/Tea Break	10:30-11:00
S105TU04	300 millions of evolution: Divergence dating in Orthoptera (Arthropoda: Insecta) <i>Hojun Song</i>	11:00-11:30
S105TU05	Evolutionary insights from divergence dating studies on Hymenoptera <i>Sean Gary Brady</i>	11:30-12:00
	Lunch	12:30-14:00

## S 106

## Phylogeny and evolution of the Paraneoptera

Symposium Organizers : Christiane Weirauch(U.S.A.), Jason Cryan(U.S.A.), Kevin Johnson(U.S.A.)

## Room 9

August 21, Tuesday

Code No.	Presentation Title Authors, Presenting author	Time
S106TU01	Wing base morphology and phylogeny of Paraneoptera <i>Kazunori Yoshizawa</i>	09:00-09:15
S106TU02	Mitochondrial genomics of Paraneoptera <i>Stephen L. Cameron</i>	09:15-09:30
S106TU03	A timescale for the evolution of lice <i>Vincent Stuart Smith, Kevin P. Johnson, Kazunori Yoshizawa, Jessica E. Light</i>	09:30-09:45
S106TU04	Phylogenomics of lice using next-generation sequencing <i>Kevin Paul Johnson, Kimberly Walden, Hugh Robertson</i>	09:45-10:00
S106TU05	Thripin' Awesome: Phylogeny and mitochondrial genomics of Thysanoptera <i>Rebecca Buckman, Laurence Mound, Michael Whiting</i>	10:00-10:15
S106TU06	Phylogeny and evolution of Aphidini (Sternorrhyncha) <i>Hyjoang Kim, Seunghwan Lee</i>	10:15-10:30
Coffee/Tea Break		10:30-11:00
S106TU07	Paraneoptera: Traits and evolution of wing venation pattern <i>Andre Nel, Jakub Prokop, Patricia Nel, Philippe Grandcolas, Di-ying Huang, Jacek Seweda</i>	11:00-11:15
S106TU08	Phylogeny of Hemiptera based on the sequences of mitochondrial genomes <i>Wenjun Bu</i>	11:15-11:30
S106TU09	Phylogeny of Heteroptera - combined morphological and molecular perspective <i>Christiane Weirauch, Randall T. Schuh, Ward C. Wheeler</i>	11:30-11:45
S106TU10	Evolution of traumatic insemination in cimicoid true bugs <i>Sunghoon Jung, Ondrej Balvin, Kazutaka Yamada, Seunghwan Lee</i>	11:45-12:00
S106TU11	Vertical transmission and cospeciation of gut symbionts in heteropteran stinkbugs <i>Takahiro Hosokawa, Yoshitomo Kikuchi, Nahomi Kaiwa, Tokema Fukatsu</i>	12:00-12:15
Lunch		12:30-14:00

## S 107

## Phylogeny and evolution of the Diptera

Symposium Organizers : Brian Wiegmann(U.S.A.), David Yeates(Australia)

## Room 5

August 21, Tuesday

Code No.	Presentation Title Authors, Presenting author	Time
S107TU01	The Flytree of life: Resolution and radiation of higher-level fly phylogeny <i>Brian M. Wiegmann</i>	14:00-14:30
S107TU02	The Flytree morphology: A new phylogenetic estimate from exemplar-based analysis across the order <i>David Yeates</i>	14:30-14:45
S107TU03	Reciprocal illumination between morphology and molecules in basal Diptera phylogeny <i>Delton de Souza Amorim</i>	14:45-15:00
S107TU04	Molecular phylogeny of dark-winged fungus gnats (Diptera: Sciaroidea: Sciaridae) and the evolution of larval feeding habits <i>Seunghwan Shin, Sunghoon Jung, Frank Menzel, Kai Heller, Heungsik Lee, Seunghwan Lee</i>	15:00-15:15
S107TU05	Phylogeny and biodiversity of therevid flies (Diptera: Asiloidea) <i>Shaun Winterton</i>	15:15-15:30
Coffee/Tea Break		15:30-16:00

Code No.	Presentation Title Authors, Presenting author	Time
S107TU06	Higher flies fly high - mitogenomics of Schizophora through next generation sequencing <i>Ana Carolina M. Jamqueira, Daniel F. Paula, Aakrushi Rotan, Lynn P. Toimha, Stephan C. Schuster, Ana Maria L. Azeredo-Espin</i>	16:00-16:15
S107TU07	Outgroup relationships, basal phylogeny and classification of the family Tephritidae <i>Ho-Yeon Han, Kyung-Eui Ro</i>	16:15-16:30
S107TU08	The trouble with rapidly diversifying Neotropical lineages: Can the current Pipunculidae classification be incorporated into new phylogenetic hypotheses? <i>Jeffrey H. Skevington, Christian Kehmaier, Marc De Meyer, Jose A. Raffart, Scott Kelso</i>	16:30-16:45
S107TU09	Explosive radiation of parasitoid flies: Phylogeny and evolution of Tachinidae <i>John O. Stireman, Pierluippo Cerretti, Don J. Davis</i>	16:45-17:00
S107TU10	Mining Genbank to resolve Orthorrhapha: A supermatrix analysis of lower Brachycera <i>Michelle Trautwein, Keith Bayless, Shuan Winterton, Torsten Dikow, Brian Wiegmann, David Yeates</i>	17:00-17:15

## S 108

## Phylogenomics and the evolution of insects

Symposium Organizers : Brian Wiegmann(U.S.A.)

## Room 5

August 22, Wednesday

Code No.	Presentation Title Authors, Presenting author	Time
S108W01	Phylogenomic distribution and functions of DNA methylation in insect genomes <i>Soojin Yi</i>	09:00-09:30
S108W02	Phylogenomics and the evolution of insects ? The 1KITE project <i>Bernhard Misof</i>	09:30-10:00
S108W03	Phylogenomic insights into the Cambrian explosion, the colonization of land and the evolution of flight in Arthropoda <i>Chris Wheat, Niklas Wahlberg</i>	10:00-10:30
	Coffee/Tea Break	10:30-11:00
S108W04	Whole genomes help resolve the subordinal phylogeny of beetles <i>Duane D. McKenna</i>	11:00-11:30
S108W05	Resolving rapid radiations within Diptera: A phylogenomic approach <i>Michelle Trautwein, Brian Wiegmann</i>	11:30-12:00
	Lunch	12:30-14:00

## S 109

## From fossils to molecules: Evolution of the stick and leaf Insects

Symposium Organizers : Sven Bradler(Germany), Thomas Buckley(New Zealand)

## Room 6

August 22, Wednesday

Code No.	Presentation Title Authors, Presenting author	Time
S109W01	The phasmatodean tree of life: Progress and enigmas <i>Sven Bradler, Thomas R. Buckley</i>	09:00-09:30
S109W02	Paleobiology of fossil stick- and leaf-Insects <i>Sanja Wedmann, Sven Bradler</i>	09:30-09:45
S109W03	Homologies in stick-insect wing venation and taxonomic implications <i>Olivier Bethoux</i>	09:45-10:00
S109W04	Flight in stick insects: Biomechanics and implications for ecology and evolution <i>Yu Zeng, Robert Dudley</i>	10:00-10:15
S109W05	Evolution and systematic position of Phasmatodea - A morphological approach <i>Benjamin Wipfler, Rolf G. Beutel</i>	10:15-10:30
	Coffee/Tea Break	10:30-11:00



Code No.	Presentation Title Authors, Presenting author	Time
S109W06	New insights into the evolution of sperm structure in stick and leaf insects <i>Marco Gottardo, Romuna Dalaj</i>	11:00-11:15
S109W07	Affinity of Phasmatodea: Embryological evidence <i>Toshiki Uchifune, Yoshie Uchifune, Yuta Mashima, Ryusaku Mochida</i>	11:15-11:30
S109W08	Molecular phylogeny of stick insects based on mitochondrial genome <i>Matuo Komoto, Kenji Yukuhira, Shuichiro Tamesa</i>	11:30-11:45
S109W09	Phylogeny and genome evolution in the New Zealand stick insects (Phasmatodea) <i>Thomas Buckley, Luke Dunning, Alice Dennis, Shelley Susan Myers, Geoffrey Thomson, Sven Bradler</i>	11:45-12:00
S109W10	How clasper morphology relates to genetic and behavioural isolation in the New Zealand stick insect genus <i>Clitarchus</i> <i>Shelley Susan Myers, Alice Dennis, Gregory I. Howell, Thomas R. Buckley</i>	12:00-12:15
S109W11	The stick insects of Madagascar: Ancient lineages or recent adaptive radiation? <i>Julia Goldberg, Sven Bradler</i>	12:15-12:30

## S 110

## Biogeography: Challenges to a biological synthesis

Symposium Organizers : Kipling Will(U.S.A.), Eduardo A. B. Almeida(Brazil),  
Jong Kyun Park(Republic of Korea)

## Room 5

August 23, Thursday

Code No.	Presentation Title Authors, Presenting author	Time
S110TH01	Bio[phylo]geo[eco]graphy: The multidisciplinary nature of plant and animal geography <i>Malte Ebach</i>	09:00-09:30
S110TH02	Biogeographical units: Kinds of boundaries or individual wholes? <i>Eduardo A.B. Almeida, Renato S. Capellari, Silvio S. Nêpo</i>	09:30-09:45
S110TH03	Many Oriental regions <i>Dalton de Souza Amaral</i>	09:45-10:00
S110TH04	The wings of butterflies: Active dispersal through time or passive movements? <i>Mikko Niklas Wahlberg</i>	10:00-10:15
S110TH05	The fossils within: Use of nuclear mitochondrial pseudogenes to understand historical biogeography <i>Hojun Song</i>	10:15-10:30
	Coffee/Tea Break	10:30-11:00
S110TH06	The interface of biogeography and phylogeography in dune restricted insects in North America <i>Matthew H. Van Dam</i>	11:00-11:15
S110TH07	A History of Bioregionalisation in Australia <i>Malte C. Ebach</i>	11:15-11:30
S110TH08	Global biogeographic patterns of grassland Auchenorrhyncha <i>Therese Anne Catanaach, Clive H. Dietrich</i>	11:30-11:45
S110TH09	Historical biogeography of Australian true bugs <i>Gerasimos Cassis</i>	11:45-12:00
S110TH10	Austral biogeography: Goodbye Gondwana and the Moa buoyancy hypothesis <i>David Yeates</i>	12:00-12:15
S110TH11	Local variation, species, and biogeography of New Zealand beetles <i>Richard Leschen, Thomas Buckley, Katie Marske, Nathan Lord</i>	12:15-12:30
	Lunch	12:30-14:00

Code No.	Presentation Title Authors Presenting author	Time
S110TH12	Evolutionary and biogeographic patterns in African and Madagascan dung beetles (Scarabaeidae: Scarabaeinae) <i>Catherine Lynne Sole, Clarke Henry Scholtz</i>	14:00-14:15
S110TH13	Morphology and biogeographic patterns of ground beetles in Far East countries (Coleoptera, Carabidae, Pterostichinae) <i>Jong Kyun Park</i>	14:15-14:30
S110TH14	Large-scale biogeography of Carabid beetles using phylobetadiversity methods <i>Kipling Will</i>	14:30-14:45
S110TH15	Biogeographic patterns of Pacific Orthotylinae <i>Michael Peter Elias</i>	14:45-15:00

## S 111 Biology of Chrysomelidae

Symposium Organizers : Michael Schmitt(Germany), Jong Eun Lee(Republic of Korea)

### Room 5

August 23, Thursday

Code No.	Presentation Title Authors Presenting author	Time
	Welcoming Remarks <i>Michael Schmitt</i>	16:00-16:15
S111TH01	Alticinae (Coleoptera: Chrysomelidae) Diversity in Oaxaca, Mexico: A Preliminary Study <i>David George Farth</i>	16:15-16:30
S111TH02	Phylogeny and evolution of Chrysomeloidea(leaf beetles and long-horned beetles) <i>Duane D. McKenna, Brian D. Farnell</i>	16:30-16:45
S111TH03	Secondary sexual characters in the Diabroticites (Chrysomelidae, Galerucinae) <i>Laura Rocha Prado</i>	16:45-17:00
S111TH04	Notes on the ecology of rolled leaf hispines (Chrysomelidae: Hispinae) at La Gamba (Costa Rica) <i>Michael Schmitt</i>	17:00-17:15
S111TH05	Biology of <i>Corydon prosopidis</i> Arora (Coleopteran: Bruchidae) on acacia Arabica (Lam.) willd. - A new host record <i>Desh Raj Thakur</i>	17:15-17:30
S111TH06	Discerning pattern in the connection of Cassidinae (Coleoptera, Chrysomelidae) and host plants <i>Donald Windsor</i>	17:30-17:45

## S 112 Aphid systematic and evolution:

Systematic, ecology, phylogeny and zoogeography

Symposium Organizers : Seunghwan Lee(Republic of Korea), Robert Footitt(Canada)

### Room 2

August 22, Wednesday

Code No.	Presentation Title Authors Presenting author	Time
S112W01	Evolutionary history of gall-forming aphids of the tribe Eriosomatini (Aphididae: Eriosomatinae) <i>Masakazu Sano, Shio-ichi Akimoto</i>	09:00-09:30
S112W02	Patterns of diversification of the conifer feeding-aphid genus <i>Cinara</i> (Lachnidae): Biogeographical history and evolution of host plant association <i>Emmanuelle Jousaün, Armelle Coeur d'acier</i>	09:30-10:00
S112W03	Population genetic structure of the cotton-melon aphid, <i>Aphis gossypii</i> Glover, in primary and secondary hosts <i>Hyojoang Kim, Yeim Lee, Seunghwan Lee</i>	10:00-10:30
	Coffee/Tea Break	10:30-11:00

Code No.	Presentation Title Authors, Presenting author	Time
S112W04	Review COI sequences of the Aphididae, and the necessity of developing new molecular markers for aphid species identification <i>Wonhoan Lee, Robert G. Foottit, Seunghwan Lee</i>	11:00-11:30
S112W05	Reconstruction of subtribal concept in the tribe Macrosiphini (Hemiptera: Aphididae) based on molecular data <i>Hwalran Choi, Seungwan Shin, Seunghwan Lee</i>	11:30-11:45
S112W06	Phylogeography, life cycle evolution and differentiation of sibling species in the leaf-curling plum aphid, <i>Brochycaudus helichrysi</i> (Hemiptera: Aphididae) <i>Josephine Piffaretti, Flavie Vanlerberghe-Masutti, Emmanuelle Joussetin</i>	11:45-12:00
S112W07	Evolution of asexuality in the pea aphid, <i>Acyrtosiphum pisum</i> <i>Takashi Kanbe, Shin-ichi Akimoto</i>	12:00-12:15
S112W08	Host-associated differentiation among host-sharing aphids in the gossypii group <i>Yerlm Lee, Seunghwan Lee, Hyejoong Kim</i>	12:15-12:30
Lunch		12:30-14:00

## S 113

## Evolution of the Aculeata and the rise of eusociality

Symposium Organizers : Michael Schwarz(Australia), Jason Gibbs(U.S.A.),

Miriam Richards(Canada)

## Room 6

August 24, Friday

Code No.	Presentation Title Authors, Presenting author	Time
S113F01	Phylogenetic perspectives on social evolution and co-evolution in ants <i>Sean Gary Brady</i>	09:00-09:30
S113F02	Phylogeny and social evolution of the Halictidae <i>Jason Gibbs, Sean Brady, Kojun Kanda, Bryan N. Danforth</i>	09:30-09:45
S113F03	Phylogeny and macroevolution of colletid bees (Hymenoptera: Colletidae) <i>Eduardo A.B. Almeida, Marcio R. Piz, Sean Gary Brady, Bryan N. Danforth</i>	09:45-10:00
S113F04	Recurrent evolution of dependent colony foundation in the aculeata <i>Adam L. Cronin</i>	10:00-10:15
S113F05	Radiation of the allodapine bees since the Eocene <i>Luke B. Chenoweth, Michael Philip Schwarz</i>	10:15-10:30
Coffee/Tea Break		10:30-11:00
S113F06	Radiation of bees in the South West Pacific - Dispersals and rapid radiations <i>Scott V.C. Groom, Mark I. Stevens, Michael P. Schwarz</i>	11:00-11:15
S113F07	Phylogenetic perspective of a nocturnal niche invasion <i>Simon M. Tierney</i>	11:15-11:30
S113F08	Evolution of sociality in the apoid wasp <i>Microstigmus nigrophthalmus</i> <i>Eric R. Lucas, Rogério P. Martins, Lorenzo R.S. Zanetta, Jeremy Field</i>	11:30-11:45
S113F09	Antiquity and evolutionary history of sociality in carpenter bees <i>Sandra Rehan</i>	11:45-12:00
Lunch		12:30-14:00

## S 114

Phylogeny and evolution of the Coleoptera  
Symposium Organizers : Kojun Kanda (U.S.A.)

## Room 6

August 24, Friday

Code No.	Presentation Title Authors, Presenting author	Time
S114F01	Adephagan phylogeny based on sequence data from the 8ToL project <i>David Maddison, Kojun Kanda, Kipling Will</i>	14:00-14:15
S114F02	Evolutionary patterns of hind wing morphology in scarabs (Coleoptera: Scarabaeoidea) based on the extant and extinct evidences <i>Ming Bai, Jiazhai Cao, Xingke Yang</i>	14:15-14:30
S114F03	Phylogenetic relationships of Cleroidea <i>Richard Leschen, Julia Lorenzen, Adam Shovel, Matthew Gimnel</i>	14:30-14:45
S114F04	The Phylogeny of Tenebrionoidea (Cucujiformia) inferred from molecular data <i>Kojun Kanda, Alexander Wild, Duane McKenna, David Maddison</i>	14:45-15:00
S114F05	Phylogenetics of weevils (superfamily Curculionoidea) <i>Alexandra Elena Morwick, Duane McKenna, Brian Farrell</i>	15:00-15:15
S114F06	Nomenclature of family-group and genus-group names in Coleoptera <i>Pat Bouchard, Miguel A. Alonso-Zaragoza</i>	15:15-15:30
Coffee/Tea Break		15:30-16:00
S114F07	Reconstructing the Beetle Tree of Life <i>Duane D. McKenna, Alex Wild, Kojun Kanda, David Maddison, Brian D. Farrell</i>	16:00-16:30
S114F08	A summary tree of Coleoptera from available molecular data <i>Alfried P. Vogler, Chris Barron, Douglas Chesters, Ladislav Bocak, Alexandra Crampton-Platt, Sujatha N. Kuttu, Dirk Ahrens</i>	16:30-17:00

## S 115

## Origin and early splits of hexapods

Symposium Organizers : Günther Pass (Austria), Bernhard Misof (Germany), Ryuichi Machida (Japan)

## Room 5

August 24, Friday

Code No.	Presentation Title Authors, Presenting author	Time
S115F01	Origin of views on origins of hexapods <i>Niels Peder Kristensen</i>	09:00-09:15
S115F02	How did the first hexapod look like: Status quo and problems in reconstructing the ground pattern of Hexapoda <i>Nikolaus Urban Szucsich</i>	09:15-09:30
S115F03	Exploring morphological variation in apterygotes: Consequences of taxon sampling on ancestral character state reconstructions <i>Markus Koch</i>	09:30-09:45
S115F04	Early splitting of Hexapoda reviewed from the comparative embryology <i>Ryuichi Machida</i>	09:45-10:00
S115F05	Entognath formations of three entognathan constituents, Protura, Collembola and Diplura <i>Shigekazu Tomizuka, Acaori Sekiya, Masako Fukui, Ryuichi Machida</i>	10:00-10:15
S115F06	Unravelling Collembola phylogeny <i>Cyrille A. D'Hoesse</i>	10:15-10:30
Coffee/Tea Break		10:30-11:00
S115F07	The molecular evolution of basal hexapods <i>Yun-Kia Luan, Wih-Jin Chen, Yi-Hua Hsu, Yun-Bi Yau Gao, Wih-Ying Yin</i>	11:00-11:15
S115F08	Phylogenetic analysis based on three nuclear DNA-encoded protein sequences confirms the monophyly of Hexapoda, but does not support the monophyly of Entognatha <i>Zhi-Hui Su, Gao Shizaki, Kenjiro Ishiguro</i>	11:15-11:30
S115F09	Basal hexapod relationships based on phylogenomic data: Progress, challenges and pitfalls <i>Karen Meusemann, Bernhard Misof</i>	11:30-11:45
S115F10	Can we ever hope for a robust backbone tree of hexapods? <i>Bernhard Misof, Karen Meusemann</i>	11:45-12:00

Code No.	Presentation Title Authors, Presenting author	Time
S115F11	Early splits of Pterygota: Inputs and shortcomings of the fossil record <i>Olivier Bethoux</i>	12:00-12:15
S115F12	Resolving the phylogeny of non-endopterygote Hexapoda <i>Andreas Zwick, Hong Zhao, Jerome C. Regier</i>	12:15-12:30
	Lunch	12:30-14:00

## S 116

**Biological transitions in the Hymenoptera: A phylogenetic perspective**  
 Symposium Organizers : Andy Austin(Australia), John Heraty(U.S.A.)

Room 5

August 24, Friday

Code No.	Presentation Title Authors, Presenting author	Time
	Biological transitions in the Hymenoptera - Introductory remarks <i>Andrew D. Austin</i>	14:00-14:05
S116F01	Phylogenetic relationships among superfamilies of Hymenoptera <i>Michael Sharkey, James Carpenter, Lars Vilhelmsen, John Heraty, Victoria Pook</i>	14:05-14:20
S116F02	Phylogeny of the Chalcidoidea: Latest results and implications <i>John Heraty</i>	14:20-14:35
S116F03	Phylogeny of the Aculeata (Hymenoptera): Results of the Hymenoptera Taxonomic Working Group <i>Denis John Brothers, James M. Carpenter, Susanne Schramm, Donat Agosti, Carlos D. Azavedo, Craig M. Brauner, Jacques Dubois, Lynn S. Kimsey, Volker Lohmann, Michael Ohl, Laurence Parker</i>	14:35-14:50
S116F04	Evolution of the hymenopteran ovipositor system: Implications for host exploitation <i>Donald L.J. Quicke</i>	14:50-15:05
S116F05	Evolution of endoparasitism-strategies for dealing with the host milieu <i>Michael R. Strand</i>	15:05-15:20
	Coffee/Tea Break	15:30-16:00
S116F06	Host switching as biological transitions among parasitoids - exploiting spiders as a resource <i>Andrew D. Austin</i>	16:00-16:15
S116F07	Evolution of sex determination and endosymbionts in the Hymenoptera <i>Leo W. Beukeboom, Elzbieta Geurink, Wen-Juan Mo, Louis van der Zande</i>	16:15-16:30
S116F08	Defensive mutualisms and diffuse host-symbiont co-evolution in Hymenoptera <i>Martin Kaltenpoth, Tobias Engl</i>	16:30-16:45
S116F09	Tracing the rise of ants <i>Andrea Lucky, Michelle Trautwein, Benoit Guenard, Michael Weiser, Robert Dunn</i>	16:45-17:00
S116F10	Uncovering the evolutionary history of a unique family of ant parasitoids (Eucharitidae: Hymenoptera) <i>Elizabeth Murray, John Heraty</i>	17:00-17:15
S116F11	Morphology and phylogeny of the enigmatic wasp genus <i>Cales</i> (Chalcidoidea: Calesinae) <i>Jason Mottern, John Heraty</i>	17:15-17:30

## Section 2 Morphology and Ultrastructure

Conveners: R.A. Steinbrecht (Germany), Myungjin Moon (Republic of Korea)

### S 201

**Insect flight and migration: Aerial performance in a changing world**  
Symposium Organizers: Robert Dudley (U.S.A.), Jason Chapman (United Kingdom)

Room 9

August 23, Thursday

Code No.	Presentation Title Authors Presenting author	Time
S201TH01	Arthropod aloft: The origins of aerial behavior and flight <i>Robert Dudley</i>	09:00-09:30
S201TH02	Multimodal sensory control of insect flight <i>Sanjay Prafullachandra Sane, Anand Krishnan, Sunil Prabhakar, Tansil Deora, Harshada Hemant Sont, Umesh Mohan</i>	09:30-10:00
S201TH03	Dynamic flight stability of a bumblebee in forward flight <i>Mao Sun</i>	10:00-10:30
Coffee/Tea Break		10:30-11:00
S201TH04	Ecophysiology of migratory flight in Lepidoptera <i>Jeremy N. McNeil</i>	11:00-11:30
S201TH05	Reproductive benefits of seasonal insect migration to high latitudes <i>Jason Chapman</i>	11:30-12:00
S201TH06	Orthopteran mass migrations <i>Gregory A. Sward</i>	12:00-12:30
Lunch		12:30-14:00
S201TH07	Orientation behaviour of nocturnal insect migrants observed with a monitoring radar <i>Vincent Alistair Drake, Haikou Wang</i>	14:00-14:30
S201TH08	Orientation and layering behaviors of nocturnal migrant insects revealed with entomological radar in northern China <i>Hongqiang Feng, Kongming Wu</i>	14:30-15:00
S201TH09	Radar entomology in Japan <i>Akira Otuka, Toshiaki Nakano, Yota Matsumoto, Masaya Matsumura</i>	15:00-15:30
Coffee/Tea Break		15:30-16:00

### S 202

**Mechanisms of regulation of growth rate and size and shape in insects**  
Symposium Organizers: Jon Harrison (U.S.A.)

Room 9

August 24, Friday

Code No.	Presentation Title Authors Presenting author	Time
S202F01	The role of FoxO in integrating insulin and ecdysone signaling during body size regulation <i>Takashi Kayama, Christen K. Muth</i>	09:00-09:30
S202F02	The function of Rab4b in insect growth and development <i>Li Hou, Mei Juan Cao, Dian Song, Jin Xing Wang, Xiao-Fan Zhao</i>	09:30-10:00
S202F03	Balancing crosstalk between steroid-induced autophagy and apoptosis in <i>Drosophila</i> remodeling fat body <i>Hanhui Liu, Sheng Li</i>	10:00-10:30
Coffee/Tea Break		10:30-11:00
S202F04	Mechanisms and evolution of nutrient-dependent horn allometry in beetles <i>Laura Corley Lavigne, Douglas J. Emlen, Ian A. Warren, Hiroki Gotoh, Ian Dworkin, Toru Mura</i>	11:00-11:30
S202F05	The regulation of organ allometry in <i>Drosophila</i> <i>Alexander Shingleton, Huiyuan Tang, Yu Liang, R. Craig Stillwell, Ian Dworkin, Peter Bates, W. Anthony Frankino</i>	11:30-12:00
S202F06	Is internal hypoxia a signal for the transition from growth to molting in insect larvae? <i>Jon Fawell Harrison, Vivian Collier</i>	12:00-12:30
Lunch		12:30-14:00

## Section 3 Insect Immunology, Physiology and Neurobiology

Conveners : Yonggyun Kim(Republic of Korea), Michael Kanost(U.S.A.)

### S 301

#### Hemolymph proteins in immunity

Symposium Organizers : Mike Kanost(U.S.A.), Bok Luel Lee(Republic of Korea)

#### Room 8

August 20, Monday

Code No.	Presentation Title Authors_Presenting author	Time
S301M01	Hemolymph protease cascades in immune responses of <i>Manduca sexta</i> Michael R. Kanost, Chongju An, Jayne M. Christen, Yang Wang, Hao Bo Jiang	09:00-09:30
S301M02	Identification of bacterial genes expressed upon infection to control pathogenicity in <i>Drosophila</i> Yoshinobu Nakanishi	09:30-10:00
S301M03	Immune proteins in hemolymph of <i>Galleria mellonella</i> In-Hee Lee	10:00-10:30
	Coffee/Tea Break	10:30-11:00
S301M04	Antiviral and "specific" immunity in a crustacean Kenneth Söderhäll	11:00-11:30
S301M05	A link coordinating humoral and cellular responses in <i>Drosophila</i> immunity Shoichiro Kurata	11:30-12:00
S301M06	Hemolymph pattern recognition proteins involved in innate immune responses of <i>Tenebrio molitor</i> Bok-Luel Lee	12:00-12:30
	Lunch	12:30-14:00

### S 302

#### Immune mediators and cross-talk

Symposium Organizers : David Stanley(U.S.A.), Yonggyun Kim(Republic of Korea)

#### Room 8

August 20, Monday

Code No.	Presentation Title Authors_Presenting author	Time
S302M01	Deploying the mosquito IMD pathway in the war against malaria George Dimopoulos	14:00-14:15
S302M02	Biological functions of insect cytokine growth-blocking peptide (GBP) Yoichi Hayakawa	14:15-14:30
S302M03	Both biogenic monoamine and PSP activate hemocyte-spreading via eicosanoids Yonggyun Kim, David Stanley	14:30-14:45
S302M04	Hindgut innate immunity and regulation of fecal microbiota through melanization in insects Qimiao Shao, Bing Yang, Qiyun Xu, Xuquan Li, Zhiqiang Lu, Chengshu Wang, Yongping Huang, Kenneth Söderhäll, Erjun Ling	14:45-15:00
S302M05	Is leibocin-like protein an antibacterial peptide that specifically functions in the midgut of <i>Spodoptera litura</i> ? Xingyu Lin, Sichun Zheng, Qili Feng	15:00-15:15
	Coffee/Tea Break	15:30-16:00
S302M06	<i>Drosophila</i> immune responses against entomopathogenic nematodes Ulrich Theopold, Zhi Wang, Pavel Dobes, Robert Markus, Pavel Hryni	16:00-16:15
S302M07	<i>Cotesia congregata</i> bracovirus (CcBV) induces apoptosis of parasitized host plasmatocytes Germain Chevignon, Sébastien Moreau, Hubert Guzmier, Élisabeth Huguet, Jean-Michel Drezen	16:15-16:30

# S 303

## Integrative nutrition: From physiology to ecology and beyond

Symposium Organizers: Spencer T. Behmer(U.S.A.), Kwang Pum Lee(Republic of Korea), Stephen J. Simpson(Australia)

Room 8

August 21, Tuesday

Code No.	Presentation Title Authors, Presenting author	Time
S303TU01	Nutrition and ageing in <i>Drosophila melanogaster</i> Matthew Piper	09:00-09:15
S303TU02	A fructose receptor functions as a nutrient sensor in the <i>Drosophila</i> brain Tetsuya Miyamoto, Jesse Stone, Xiangyu Song, Hubert Amrein	09:15-09:30
S303TU03	Central neurons modulating feeding motor rhythms in <i>Drosophila</i> Michael Pankratz	09:30-09:45
S303TU04	The hungry fly larvae: strain-specific phenotypic and nutrient signaling responses to varying food Spencer T. Behmer, Lisa Ellis, Aaron Tarone	09:45-10:00
S303TU05	Evolving obesity resistance and metabolic-thrift in the genetic model organism - <i>Drosophila melanogaster</i> Lindsey Jane Gray, Alissa Anderson, David Raubenheimer, Stephen James Simpson	10:00-10:15
S303TU06	The honeybee: A sugar junkie Geraldine Wright, Pier Paolo, Daniel Stobler	10:15-10:30
<b>Coffee/Tea Break</b>		<b>10:30-11:00</b>
S303TU07	Nutritional limitation of food chain length Shawn M. Wilder, Michael Narns, David Raubenheimer, Stephen James Simpson	11:00-11:15
S303TU08	Understanding social behaviour through nutrition: Collective decisions in fruit flies Mathieu Lihoreau, Stephen James Simpson	11:15-11:30
S303TU09	Nutritional immunology: A multi-dimensional approach Fleur Ponton, Kenneth Wilson, Andrew J. Holmes, Sheena C. Cotter, David Raubenheimer, Stephen James Simpson	11:30-11:45
S303TU10	Variety is the spice of life: A 21st century reappraisal of dietary mixing in a generalist insect herbivore Helke Vogel, Gregory Sward, Spencer T. Behmer	11:45-12:00
S303TU11	Polygalacturonase activity in phytophagous beetles: One way to utilize plant cell wall polysaccharides Ray Kirsch, Václav Pauchet, Helke Vogel, David G. Heckel	12:00-12:15
S303TU12	Isothiocyanate metabolism in lepidopteran herbivores Katharina Schramm, Daniel Gidelange Vissia, Michael Reichelt, Jonathan Gershenson	12:15-12:30
<b>Lunch</b>		<b>12:30-14:00</b>
S303TU13	Leaf-miner insects modulate nutritional intake through an unexpected association with endosymbiotic bacteria David Gron, Melanie Body, Jerome Casas, Jean-Paul Monge, Arnaud Lanoie	14:00-14:15
S303TU14	Putting a complete nutrient budget to the acid test - and using it Jerome Casas, Melanie Body	14:15-14:30
S303TU15	Plant quality is more than just nutrients: Insect herbivores can choose microclimates to achieve nutritional homeostasis Fiona Cissold, Stephen James Simpson	14:30-14:45
S303TU16	Interplay of nutrition and temperature affecting food intake and performance in insects: A case study from caterpillars Kwang Pum Lee	14:45-15:00
S303TU17	Low plant nitrogen content and high population density enhance migratory characters in a polyphenic locust Arlene Cease, Jon Harrison, Shuanghao Hao, Le Kang, Danielle Iwern, James Ecker	15:00-15:15
S303TU18	Nutrient regulation strategies in wing polymorphic crickets reflect life history allocation trade-offs Rebecca Maria Clark, Anthony J. Zera, Spencer T. Behmer	15:15-15:30
<b>Coffee/Tea Break</b>		<b>15:30-16:00</b>



## S 304

## Salivary proteins

Symposium Organizers : Jose M.C. Ribeiro(U.S.A.)

## Room 7

August 21, Tuesday

Code No.	Presentation Title Authors_Presenting author	Time
S304TU01	Introduction & Welcoming Remarks <i>Jose Ribeiro</i>	09:00-09:30
S304TU02	Vector saliva as a vaccine target to prevent infectious diseases <i>Jesus G. Valenzuela</i>	09:30-09:45
S304TU03	Mosquito salivary glands as vaccine delivery targets <i>Shigeto Yoshida, Daisuke Yumomoto, Hiroyuki Matsuoka</i>	09:45-10:00
S304TU04	Vector salivary antigens as epidemiological markers <i>Anne Poinignon, Pape Diame, Alexandra Marie, Herbert Noutpa, Sylvie Cornille, Souleymane Doucoure, Marie Rossignol, Francois Mauchet, Franck Remeur</i>	10:00-10:15
S304TU05	The role of salivary anti proteases in tick feeding and host manipulation <i>Jindrich Chmelar, Helina Harkio, John F. Andersen, Michael Mares, Eric Calvo, Jose M. Ribeiro, Iva M. Francischetti, Joao H. Pedra, Michail Katsyakis</i>	10:15-10:30
	Coffee/Tea Break	10:30-11:00
S304TU06	Insect saliva in plant insect interactions <i>David Prince, Marco Pitino, Alexander Coleman, Claire Drury, Saskia Hogenhout</i>	11:00-11:15
S304TU07	Proteomics of aphid salivary proteins <i>Frederic Francis, Sophie Vandennoten, Edwin DeHaan, Eric Hsueh</i>	11:15-11:30
S304TU08	Function and antigenicity of mosquito salivary proteins <i>Bruno Arca, Fabrizio Lombardi, Raffaele Russo, Cristina Rizzo, Gabriella Fiorentino, David Modiano</i>	11:30-11:45
S304TU09	Role of saliva in vectors of dengue virus transmission <i>Dorothee Misse, Parnapat Surasombattapattana, Rodolphe Hamel, Siniokana Parameal, Natthanij Lupterap, Hans Yssel</i>	11:45-12:00
	Lunch	12:30-14:00

## S 305

## Neuropeptides and GPCR

Symposium Organizers : Young-Joon Kim(Republic of Korea)

## Room 8

August 22, Wednesday

Code No.	Presentation Title Authors_Presenting author	Time
S305W01	PTTH coordinates physiological and behavioral transitions during <i>Drosophila</i> development <i>Naoki Yamanaka, Ken F. Reilly, Michael B. O'Connor</i>	09:00-09:30
S305W02	Expression and function of neuropeptides and their receptors in <i>Bombyx mori</i> <i>Dusan Zitnan, Ivana Doubnerova, Alexandra Zibinova, Ladislav Roller, Da-Hyoung Kim, Michael E. Adams</i>	09:30-09:45
S305W03	<i>Drosophila</i> short neuropeptide F (sNPF) signaling regulates lifespan, body growth, and carbohydrate metabolism through the insulin signaling <i>Kweon Yu</i>	09:45-10:00
S305W04	Neuropeptides in the midgut <i>Jan Adrianus Veenstra</i>	10:00-10:15
S305W05	Updates of neuropeptide mediated regulation of ecdysone biosynthesis in the prothoracic glands of <i>Bombyx mori</i> <i>Masatoshi Iga, Hiroshi Kuraoka</i>	10:15-10:30
	Coffee/Tea Break	10:30-11:00

Code No.	Presentation Title Authors_Presenting author	Time
S305W06	Multiple transmitter systems regulate adipokinetic hormone signaling in <i>Drosophila</i> Erik C. Johnson, Jason T. Braco, Emily Gillespie, Gregory E. Alberto, Rebecca J. Perry	11:00-11:15
S305W07	G-protein coupled receptors for regulating ecdysteroid biosynthesis in the fruit fly <i>Drosophila melanogaster</i> Yuko Shimada-Niwa, Jevgeniya Maratynova, Ryusuke Niwa	11:15-11:30
S305W08	Identification of the molecular domain that confer ligand selectivity of the sex peptide receptor Young-Joon Kim	11:30-11:45
S305W09	Neuropeptide G protein coupled receptors in <i>Glossina morsitans</i> Liliane Schoofs, Jelle Coers, Gerd Cide, Jan Van Den Abbeele, Stephan Tönck, Heutler Manu	11:45-12:00
	Lunch	12:30-14:00

## S 306

## The role of immunity in host-pathogen interactions

Symposium Organizers: Sassan Asgari(Australia)

## Room 8

August 23, Thursday

Code No.	Presentation Title Authors_Presenting author	Time
S306TH01	Evolutionary plasticity of insect immunity Andreas Vekrellis	09:00-09:30
S306TH02	Virulence factors produced by pathogens provide important insights into the function of the insect immune system Michael R. Strand	09:30-10:00
S306TH03	Infection-induced physiological interaction between the mosquito circulatory and immune systems Julian F. Hillmer	10:00-10:15
S306TH04	The impact of isoprenoid precursors released by parasites and pathogens on the immune response in <i>Drosophila</i> and <i>Anopheles</i> Károly Eriksson-Gonzales, Bo Lundberg, Olof Jönvall, Makoto Hino, Eleonor Merret, Bent Olafsson, Ingrid Faye	10:15-10:30
	Coffee/Tea Break	10:30-11:00
S306TH05	The endosymbiont <i>Wolbachia</i> as an extension of the host antiviral immune system Karyn H. Johnson	11:00-11:15
S306TH06	Mosquito immunity to human pathogens George Dimopoulos	11:15-11:30
S306TH07	Biochemical characterization of host-immune related molecules by infection of pathogenic or symbiotic bacteria into the hemimetabolous insect, <i>Riptortus pedestris</i> Bok Luel Lee	11:30-11:45
S306TH08	Bacterial flagellin as an initiator of insect immune responses Stuart E. Reynolds, Christophe Fleury	11:45-12:00
	Lunch	12:30-14:00

## S 307

## Insect cuticle

Symposium Organizers: Subbaratnam Muthukrishnan(U.S.A.), Hans Merzendorfer(Germany)

## Room 8

August 23, Thursday

Code No.	Presentation Title Authors_Presenting author	Time
S307TH01	Organisation of the cuticle as a physical barrier involves the C-type lectin Schlaff Khaleelulla Sahab Shakh, Frauke Meyer, Bernard Moussian	14:00-14:30
S307TH02	Cuticular hydrocarbon biosynthesis Rene Feyereisen, Yue Ou, Claus Tittiger, Claude Wicker Thomas, Gerdie Li-Goff, Naveed, Weing, Gary J. Blomquist	14:30-14:45
S307TH03	Cuticular hydrocarbons and behaviour in social insects Judith Ingrid Korb	14:45-15:00
S307TH04	Molecular basis of color pattern formation in dragonflies Ryo Futahashi, Takuma Fukatsu	15:00-15:15
S307TH05	Wing pigment patterns in the ladybird beetle, <i>Harmonia axyridis</i> Teruyuki Nimi	15:15-15:30
	Coffee/Tea Break	15:30-16:00

Code No.	Presentation Title Authors, Presenting author	Time
S307TH06	Relationship of cuticular proteins and sclerotization with mechanical properties of beetle cuticle <i>Michael R. Kanost, Neal T. Dittmer, Yasuyuki Arakane, Patricia A. Sprause, Joseph Lamokis, Stevin H. Gehring, Subbaratnam Muthukrishnan, Richard W. Beeman, Karl J. Kramer</i>	16:00-16:30
S307TH07	RNAi-based functional analysis of yellow-e in <i>Tribolium castaneum</i> <i>Mi Young Noh, Michael R. Kanost, Subbaratnam Muthukrishnan, Richard W. Beeman, Karl J. Kramer, Yasuyuki Arakane</i>	16:30-16:45
S307TH08	Laccase activation in ecdysis process <i>Tsunaki Asano</i>	16:45-17:00
S307TH09	Functional analysis of chitin-binding proteins in the cuticle of <i>Tribolium castaneum</i> <i>Subbaratnam Muthukrishnan, Simu Jaisripurka, Sanyta Choudhury, Beibei Li, Yasuyuki Arakane, Bernard Mouslion, Hans Merzendorfer, Charles A. Specht, Richard W. Beeman, Karl J. Kramer</i>	17:00-17:15
S307TH10	Chitin synthesis inhibitors: Old molecules and new developments <i>Hans Merzendorfer</i>	17:15-17:30

## S 308

Neuroendocrine system in control of physiology  
Symposium Organizers : Yoonseong Park(U.S.A.)

## Room 7

August 23, Thursday

Code No.	Presentation Title Authors, Presenting author	Time
S308TH01	Peptidergic signaling cascades in regulation of insect ecdysis <i>Michael Edward Adams, Do-Hyoung Kim, Durian Zitan</i>	14:00-14:30
S308TH02	The proctolin gene and actions of proctolin in the blood-feeding bug, <i>Rhodnius prolixus</i> <i>Angela B. Lange, Do Hee Lee, Ian Orchard</i>	14:30-15:00
S308TH03	The brown planthopper, <i>Nilaparvata lugens</i> is a new tool for studying the diversity of neuropeptide-signalling in insects. <i>Yoshiaki Tanaka, Takumi Kiyukawa, Yoshitaka Suetsugu, Takaoaki Doiman, Chieko Okada, Kimiko Yamamoto, Hiroaki Noda, Tetsuro Shinoda</i>	15:00-15:30
Coffee/Tea Break		15:30-16:00
S308TH04	Diuretic and anti-diuretic strategies in the blood-gorging bug, <i>Rhodnius prolixus</i> <i>Ian Orchard</i>	16:00-16:30
S308TH05	Evolution of family-B GPCRs in insects and its function in <i>Tribolium castaneum</i> <i>Chengjun Li, Ming Song, Xing Lou, Bin Li</i>	16:30-17:00
S308TH06	Bursicon homodimers induce immune gene expression <i>Qisheng Song</i>	17:00-17:30
S308TH07	Molecular physiology of tick salivation <i>Yoonseong Park</i>	17:30-18:00

## S 309

Insect sensory neurobiology  
Symposium Organizers : Hyung-Wook Kwon(Republic of Korea),  
Walton Jones(Republic of Korea)

## Room 7

August 24, Friday

Code No.	Presentation Title Authors, Presenting author	Time
S309F01	Mechanisms that underlie learning and memory of complex floral odors by honey bees and moths <i>Brian H. Smith, Fernando F. Locatelli, Patricia C. Fernandez</i>	09:00-09:30
S309F02	Selectivity of moth's olfactory receptor neurons and their odorant receptors <i>Walter S. Leal</i>	09:30-09:45
S309F03	Representation of behaviorally relevant odor information in the <i>Drosophila</i> brain <i>Bill S. Hansson, Antonio Strutz, Jawad Ahsan, Silke Sachse, Markus Knaden</i>	09:45-10:00

Code No.	Presentation Title Authors_Presenting author	Time
S309F04	From sensory receptors to functional neural networks: Constructing and deconstructing olfactory circuits in <i>Drosophila</i> Pelin Cayirlioglu Volkan	10:00-10:15
S309F05	Introceptive sugar sensing in <i>Drosophila</i> Greg Suh, Monica Dus, Soohong Min	10:15-10:30
Coffee/Tea Break		10:30-11:00
S309F06	The speed of smell: Odor-object segregation within milliseconds Paul Szyszka, Jacob Silerle, Stephanie Biergan, C. Giovanni Galizia	11:00-11:15
S309F07	Plastic control of olfactory pheromone responses in <i>Drosophila</i> Aki Ejima	11:15-11:30
S309F08	Specialized noses for specialized lifestyles Marcus Carl Stensmyr	11:30-11:45
S309F09	Evolution of the insect chemoreceptor superfamily Hugh M. Robertson	11:45-12:00
S309F10	Optophysiological approaches to olfactory signal transduction and odor processing in larval <i>Drosophila</i> Andre Fiala, Ulrike Piech, Atefeh Poorayon	12:00-12:15
S309F11	A microRNA-based screen for novel genes involved in olfactory physiology Walton D. Jones	12:15-12:30
S309F12	Structural and functional differences in the antennae of worker honey bees of <i>Apis mellifera</i> and <i>Apis cerana</i> Je won Jung, Kun woong Park, Hyung wook Kwon	12:30-12:45
Lunch		12:30-14:00

## Section 4 Development and Reproduction

Conveners: Hideharu Numata (Japan), František Sehnal (Czech Republic)

S401

## Neuropeptides in insect development and reproduction

Symposium Organizers: Klaus H. Hoffmann (Germany), Liesbeth Badisco (Belgium)

Room 3

August 20, Monday

Code No.	Presentation Title Authors: Presenting author	Time
S401M01	Neurohormonal control of desert locust ( <i>Schistocerca gregaria</i> ) reproductive physiology Liesbeth Badisco, Pieter Van Wierenhaele, Senne Dillen, Elisabeth Marchat, Jozef Vanden Broeck	09:00-09:30
S401M02	The distribution and physiological effects of neuropeptides controlling reproductive tissues in the kissing bug, <i>Rhodnius prolixus</i> Angela B. Lange	09:30-09:45
S401M03	RNAi Technology reveals the roles of G-protein coupled receptors in moth reproductive behavior Ada Rafaeli	09:45-10:15
S401M04	The potential for disrupting pupal diapause in <i>Heliothis/Helicoverpa</i> with diapause hormone David Landis Denlinger, Qirui Zhang, Ronald J. Nachman	10:15-10:30
	Coffee/Tea Break	10:30-11:00
S401M05	Neuroparsin Jan Adrianus Veenstra	11:00-11:15
S401M06	Possible ETH role in regulation of juvenile hormone production in <i>Bombyx</i> Dusan Zitnan, Ivana Dabnerova, Ladislav Rollet, Klaus H. Hoffmann, Michael E. Adams	11:15-11:45
S401M07	Juvenile hormone titer and allatregulating neuropeptides in wood-feeding cockroaches and primitive termites Klaus H. Hoffmann, Franziska Wende	11:45-12:00
S401M08	RNAi of the allatotropin peptide precursors and allatotropin receptor highlighting their physiological role in insects: Focus on the red flour beetle, <i>Tribolium castaneum</i> Roger Remi Huybrechts, Julie Tobback, Magdalena Bil, Kristel Vueringck	12:00-12:15
S401M09	Epigenetic control of locust phase polymorphism Liliane Schoofs, Arnold De Loof, Bart Baeyen	12:15-12:30
	Lunch	12:30-14:00
S401M10	Functions of sNPF/CCAP autocrine metabolostat regulating feeding, behavior and reproduction in <i>Periplaneta americana</i> Makiko Takeda, Azam Mikami, Yoshiaki Nagaba, Qushi Wang, Tufail Muhammad	14:00-14:15
S401M11	Behaviour-modifying peptides and peptidases of male accessory glands R. Elwyn Isaac	14:15-14:30
S401M12	The significance of PISCF allatostatsins in beetles Neil Audsley, Hans Peter Vondersmissen, Robert Weaver, June Matthews, Jozef Vanden Broeck	14:30-14:45
S401M13	Control of molt and metamorphosis in <i>Sesamia nonagrioides</i> (Lepidoptera, Noctuidae) Valeriya Zabelina, Matilde Ezaguirre, František Sehnal, Mercedes Perez-Hedo	14:45-15:00
	Discussion	15:00-15:30
	Coffee/Tea Break	15:30-16:00

# S 402

## Photoperiodic induction of diapause and seasonal morphs Symposium Organizers : Shin G. Goto(Japan), Jim Hardie(United Kingdom)

### Room 6

August 21, Tuesday

Code No.	Presentation Title Authors Presenting author	Time
S402TU01	Induction of diapause and seasonal morphs in butterflies and other insects <i>Soren Nylin</i>	09:00-09:30
S402TU02	Possible involvement of cryptochrome and opsins in photoperiodic regulation of nymphal development in the cricket <i>Modicogryllus siamensis</i> <i>Kenji Tomioka, Saori Tamaki, Saki Takemoto</i>	09:30-09:45
S402TU03	Photoperiodic response under control of circadian clock genes in the bean bug <i>Riptortus pedestris</i> <i>Shin G. Goto, Tomoko Ikeda, Kimiko Ishikawa, Hideharu Numata</i>	09:45-10:00
S402TU04	Transcriptomic basis of seasonal photoperiodism regulation in the pea aphid <i>Gael Le Triennaire, Stephanie Jaubert-Possamai, Nathalie Leterme-Prunier, Sylvie Hudaverdian, Sylvie Tanguy, Fabrice Legeai, Jean-Christophe Suman</i>	10:00-10:15
S402TU05	Arylalkylamine N-acetyltransferase is the neuroendocrine interface regulating photoperiodism for pupal diapause of the giant silk moth, <i>Antheraea pernyi</i> <i>Makio Takeda, Ahmed Mahmoud, Jadwiga Bemberek, Taketo Tsugehara, Qingshi Wang</i>	10:15-10:30
Coffee/Tea Break		10:30-11:00
S402TU06	Endocrine mechanisms underlying loss of seasonal reproductive polyphenism in the pea aphid <i>Asano Ishikawa, Hiroki Gotoh, Kota Ogawa, Toru Mura</i>	11:00-11:15
S402TU07	Pupal color polyphenism in the swallowtail butterflies, <i>Papilio xuthus</i> and <i>P. machaon</i> <i>Akira Yamanaka</i>	11:15-11:30
S402TU08	Inheritance of photoperiodic control of pupal diapause in the cotton bollworm, <i>Helicoverpa armigera</i> (Hubner) <i>Fangsen Xue, Chao Chen</i>	11:30-11:45
S402TU09	Effect of photoperiod on flight propensity and induction of adult diapause in the water strider <i>Limnoporus genialis</i> (Hemiptera: Gerridae) <i>Rinshiro Masuda, Shiro Nakao</i>	11:45-12:00
S402TU10	Surviving winter: Diapause syndrome in the southern green stink bug <i>Nezara viridula</i> in the laboratory, in the field, and under climate change conditions <i>Dmitry L. Musafin</i>	12:00-12:15
S402TU11	A lunar rhythm derived from photoperiodic induction of diapause? Experimental dissection of lunar rhythms in the marine midge <i>Clunia marinus</i> <i>Tobias S. Kalsky, David G. Heckel</i>	12:15-12:30
Lunch		12:30-14:00

# S 403

## From embryo to metamorphosis: Genes for insect development Symposium Organizers : Sumihare Noji(Japan), Martin Klingler(Germany)

### Room 6

August 21, Tuesday

Code No.	Presentation Title Authors Presenting author	Time
S403TU01	New developmental gene functions identified by a genome-wide RNAi screen in the four beetle <i>Tribolium</i> <i>Martin Klingler, Gregor Bucher, The iBeetle Consortium</i>	14:00-14:30
S403TU02	Exploring mechanisms of embryonic patterning in <i>Gryllus bimaculatus</i> , a hemimetabolous insect model system <i>Taro Mito, Taro Nakamura, Tetsuya Bando, Takahito Watanabe, Sumihare Noji</i>	14:30-15:00
S403TU03	Role of Wnt and BMP signaling pathways in the regional specification of early blastoderm in the cricket <i>Gryllus bimaculatus</i> <i>Taro Nakamura, Taro Mito, Tetsuya Bando, Sumihare Noji</i>	15:00-15:15
S403TU04	The function of protein phosphatase 6 in the programmed cell death in the insect midgut <i>Chuan-Xu Wang, Peng-Cheng Liu, Jie-Xing Wang, Xiao-Fan Zhao</i>	15:15-15:30
Coffee/Tea Break		15:30-16:00

Code No.	Presentation Title Authors, Presenting author	Time
S403TU05	The evolution of dorsoventral patterning in insects <i>Siegfried Roth</i>	16:00-16:30
S403TU06	Evolution of insect thoracic morphology: Emerging views <i>Aleksander Popadic</i>	16:30-17:00
S403TU07	Morphological diversity of wing serial homologues in the mealworm beetle, <i>Tenebrio molitor</i> <i>Takahiro Ohde, Toshihiko Yaginuma, Teruyuki Nimi</i>	17:00-17:15
S403TU08	Dachsous/Fat signaling via Hippo/Salvador/Warts pathway regulates cell proliferation and pattern formation during leg regeneration in the cricket <i>Tetsuya Bando, Yoshinori Homma, Taro Nakamura, Taro Mito, Hideyo Ouchi, Sumihare Noy</i>	17:15-17:30

## S 404

## New complexities in the regulation of insect diapause and cold hardiness

Symposium Organizers : Kyeong-Yeoll Lee(Republic of Korea), David L. Denlinger(U.S.A.)

## Room 7

August 21, Tuesday

Code No.	Presentation Title Authors, Presenting author	Time
S404TU01	Freeze tolerance in drosophilid flies: A comparison of two species, the fruit fly and the malt fly <i>Vladimir Kostal</i>	14:00-14:30
S404TU02	Insect cold storage technology: Design and practical applications <i>Roger Allen Leopold</i>	14:30-15:00
S404TU03	Transcriptome sequencing reveals molecular components of diapause preparation in the Asian tiger mosquito, <i>Aedes albopictus</i> <i>Peter Armbruster, Monica Poekel, Christine Elak, Julie Reynolds, David Denlinger</i>	15:00-15:30
Coffee/Tea Break		15:30-16:00
S404TU04	A role for insulin signaling as a regulator of mosquito diapause <i>David Leandis Denlinger, Cheolho Sim</i>	16:00-16:15
S404TU05	Molecular mechanisms of <i>Bombyx mori</i> embryonic diapause <i>Toshinobu Yagisawa, Teruyuki Nimi, Kazuko Kodaira, Kazuo Kodaira, Okutsu, Okitsugu Yamashita</i>	16:15-16:30
S404TU06	Stress tolerance in the Antarctic midge, <i>Belgica antarctica</i> <i>Richard Earl Lee Jr, David L. Denlinger</i>	16:30-16:45
S404TU07	Drying out to survive the winter: Using RNA-seq to identify genes involved in overwintering in the Antarctic midge, <i>Belgica antarctica</i> <i>Nicholas Mario Teets, Justin T. Peyton, David L. Denlinger</i>	16:45-17:00
S404TU08	Global analysis of hemolymph and brain metabolites during initiation and maintenance of pupal diapause in the cotton bollworm, <i>Helicoverpa armigera</i> <i>Yu-Kuan Ly, Weihsua Xu</i>	17:00-17:15
S404TU09	Temperature effects on the prolonged egg diapause of a katydid, <i>Paratlantiscus ussuriensis</i> <i>Kyeong-Yeoll Lee, Jie Kyung Shim, Hae-Seon Bong</i>	17:15-17:30

## S 405

## Hormonal control of development

Symposium Organizers : Marek Jindra(Czech Republic), Tetsuro Shinoda(Japan)

## Room 10

August 22, Wednesday

Code No.	Presentation Title Authors, Presenting author	Time
S405W01	Juvenile hormone synthesis undressed <i>Cristóbalando Rivera-Pérez, Marcela Nouzova, Mark E. Cifron, Fernando Gabriel Noriega</i>	09:00-09:15
S405W02	Molecular characterization of moltinism mutants of the silkworm, <i>Bombyx mori</i> <i>Takaaki Dalmon, Tetsuo Shinoda</i>	09:15-09:30
S405W03	The juvenile hormone-methoprene-tolerant complex regulates maturation of the adult optic lobe and female receptivity in <i>Drosophila</i> <i>Lynn M. Riddiford, Julie Blevins</i>	09:30-09:45

Code No.	Presentation Title Authors_Presenting author	Time
S405W04	Met-mediated JH signalling in adult mosquitoes <i>Jinsong Zhu, Ming Li</i>	09:45-10:00
S405W05	MET is required for maximal action of 20-hydroxyecdysone in inducing gene expression and tissue remodeling during <i>Bombyx</i> metamorphosis <i>Enen Guo, Sheng Li</i>	10:00-10:15
S405W06	Broad complex in hemimetabolous metamorphosis: The case of cockroaches <i>Jia-Hsin Huang, Jesus Lozano, Xavier Belles</i>	10:15-10:30
	Coffee/Tea Break	10:30-11:00
S405W07	Signaling through the JH receptor Met and the repressor of metamorphosis Kr-h1 is common to insects <i>Marek Jindra, Jean-Philippe Charles, Thomas Iwema, V. Chandana Epa, Keiko Takaki, Barbara Konopova, Vlastimil Srokyal, Jan Rymer</i>	11:00-11:15
S405W08	Prothoracicotropic hormone signaling in prothoracic glands of the silkworm, <i>Bombyx mori</i> <i>Shi-Hong Gu</i>	11:15-11:30
S405W09	Identification and characterization of Noppera-bo, a novel Halloween-class ecdysteroidogenic enzyme <i>Sara Enyo, Yuko Shimada-Niwa, Yoshinari Fujimoto, Tetsuo Shinada, Ryusuke Niwa</i>	11:30-11:45
S405W10	Ecdysone receptors: Structure and biology <i>Ronald Johnston Hill, Danya Tahdi-Esfahani, Lloyd D. Graham, Matthew Pollard, Linda Howerl, Ross Terrence Fensley, Julian Grusovin, George Lavrecz, Louis Lu, Tram Pham, Pat Pilling, Ben Ren, Victor Strelnick, Thomas S. Peat, David A. Winkler, Michael C. Lawrence</i>	11:45-12:00
S405W11	Two adjacent cis-regulatory elements are required for the ecdysone response of ecdysone receptor (EcR) gene in <i>Lepidoptera</i> <i>Haruhiko Fujiwara, Hiroyuki Shiroi, Morabu Kamimura, Junichi Kamayuchi</i>	12:00-12:15
S405W12	Local functions of the secreted insulin-antagonist Imp-L2 in <i>Drosophila</i> <i>Hugo Stocker, Ladin Sarraf-Zadeh, Rudiger Barter, Stefan Christen, Paola Cognigni, Katja Koehler, Irene Miquel-Aliga, Michael Pankratz, Ernst Hafen</i>	12:15-12:30
S405W13	The insulin signaling pathway is required for the death of crochets forming cells during pupal metamorphosis <i>Kiyoshi Hiruma, Mari Akitomo, Yoruhiro Sugime, Yu Koneko</i>	12:30-12:45
	Lunch	12:30-14:00

## S 406

## Evolution and development of integrated phenotypes

Symposium Organizers: Pavel Tomanek (Germany), Christine K. Mirth (Portugal)

## Room 10

August 23, Thursday

Code No.	Presentation Title Authors_Presenting author	Time
S406TH01	Developmental hourglass and the chicken and egg causality dilemma <i>Pavel Tomanek</i>	09:00-09:30
S406TH02	The evolution of novel and diverse mechanisms of arthropod germ cell specification <i>Ben S. Ewen-Campen, Seth Donaghy, Tamara Jones, Ewelyn E. Schweiger, John R. Sroufe, Victor Zeng, Donald Nat Clarke, Cassandra Gabrielle Extavour</i>	09:30-10:00
S406TH03	The coordination of growth within and between organs in <i>Drosophila</i> <i>Alexander Shingleton, Nathan Parker, Takashi Hayashi, Sascha Mokaheri-Moore</i>	10:00-10:30
	Coffee/Tea Break	10:30-11:00
S406TH04	Comparative systems-level studies of appendage morphogenesis using the crustacean model <i>Parhyale hawaiiensis</i> <i>Anastasios Pavlopoulos, Carsten Wolff, Pavel Tomanek</i>	11:00-11:30
S406TH05	Rapid physiological evolution following habitat invasions <i>Carol Eunmi Lee</i>	11:30-12:00



Code No.	Presentation Title Authors_Presenting author	Time
S406TH06	The development and evolution of the exaggerated weapons of sexual selection <i>Hiroki Gotoh, Ian A. Warren, Annika Johns, Ian M. Dvorion, Douglas J. Emlen, Toru Akura, Laura Covey-Crowne</i>	12:00-12:15
S406TH07	Population dynamics of populus leaf miner <i>Lithocolletis populifoliella</i> Tr. in <i>Abbas Hosseinzadeh, Zahra Hoshemi Khabiz, Negar Aliaghi, Nouredin Shayesteh</i>	12:15-12:30
Lunch		12:30-14:00

## S 407

## Molecular aspects of insect reproduction

Symposium Organizers : Klaus Hartfelder(Brazil), Maria Dolors Piulachs(Spain),  
Halyna R. Shcherbata(Germany)

## Room 3

August 24, Friday

Code No.	Presentation Title Authors_Presenting author	Time
S407F01	Diverse developmental and genetic mechanisms direct convergent evolution of a reproductive fitness trait in <i>Drosophila</i> <i>Delbert Andre Green II, Didem Pelin Sarikaya, Abel Asyifa Bekoy, Arsha Datta, Abha Ahuja, Cassandra Gabrielle Extavour</i>	09:00-09:30
S407F02	Cytosome-mediated delivery of hedgehog regulates the expression of bone morphogenetic proteins to maintain germline stem cells in <i>Drosophila</i> <i>Acalmo Gonzalez Reyes, Isabel Guerrero, Patricia Rojas-Rios</i>	09:30-09:45
S407F03	Laminins are required for proper formation and maturation of eggs in <i>Drosophila</i> <i>Maria Dolores Martin Bermudez, Maria del Carmen Diaz de la Lora, Acalmo Gonzalez Reyes</i>	09:45-10:00
S407F04	Steroids and miRNAs cooperate in regulation of the stem cell niche <i>Halyna R. Shcherbata</i>	10:00-10:30
Coffee/Tea Break		10:30-11:00
S407F05	Hormonal coordination of niche formation with germ line stem cell establishment <i>Dana Garuz, Tamar Lengli, Lilach Gilboa</i>	11:00-11:15
S407F06	Insulin signaling: A tangled web controlling reproduction and aging in the mosquito <i>Michael A. Riehle, Janyia Antonava Koch, Anam Anik, Kendra Quicke, Lewis Vilard-Hui</i>	11:15-11:30
S407F07	The Hippo pathway in panoistic ovaries <i>Maria Dolors Piulachs, Paula Iñes</i>	11:30-12:00
S407F08	Designing of a virus-regulated mosquito lethal gene <i>Margareth Lara Capurro</i>	12:00-12:15
S407F09	Promoter sequences of two vitellogenin genes and transcription regulations by JH/20E and endocrine disruptors <i>Makiko Takeda, Azzi Elgendy, Yoshiaki Nagao</i>	12:15-12:30
Lunch		12:30-14:00
S407F10	Cell competition and compensatory cellular hypertrophy in nonproliferating tissue <i>Yoshiko Tamori, Wu-Min Deng</i>	14:00-14:15
S407F11	Micro RNAs in the control of the differential development of <i>Apis mellifera</i> <i>Zila Luz Paulino Simoes</i>	14:15-14:30
S407F12	The influence of juvenile hormone on the social physiology of bumble bees ( <i>Bombus terrestris</i> ) <i>Hagai Shpigler, Adam Siegel, Christiana M. Grozinger, Guy Bloch</i>	14:30-14:45
S407F13	Transcriptional control of ovary size - cell death in the ovary of honey bee worker larvae <i>Klaus Hartfelder, Fernando Carvalho, Gustavo Jocomini Tiberio</i>	14:45-15:00

## Section 5 Genetics, Genomics and Evolutionary Entomology

Conveners: Yong-ping Huang(China), Kostas Bourtzis(Greece)

### S 501

#### Comparative and functional genomics of non-Diptera insects

Symposium Organizers: John Werren(U.S.A.), Stephen Richards(U.S.A.)

#### Room 7

August 20, Monday

Code No.	Presentation Title Authors: Presenting author	Time
S501M01	The i5K pilot genome sequencing at the Human Genome Sequencing Center Stephen Richards	09:00-09:30
S501M02	The arthropod genomics revolution Xin Zhou	09:30-10:00
S501M03	Molecular regulatory mechanism of phase change in locusts Le Kang	10:00-10:30
	Coffee/Tea Break	10:30-11:00
S501M04	What <i>Nasonia</i> Genomes Reveal about Adaptation & Speciation John H. Werren	11:00-11:30
S501M05	An integrative approach applied to the phenotypic plasticity of the pea aphid Denis Taga, Fabrice Legrain, Julie Jacquemont, Lucie Micuzeit, Frederique Mahon, Nathalie Prunier, Joel Bonhomme, Pierre Nouhaud, Claude Rispe, Oscar Gaggiotti, Remi Houlgatte, Solenn Stoeckel, Jean-Christophe Simon	11:30-12:00
S501M06	DNA methylation variation among morphs of the pea aphid, <i>Acyrtosiphon pisum</i> Owain Rhys Edwards, Dierks Jago, Jennifer Brisson, Stephanie Jaubert-Passamai	12:00-12:30
	Lunch	12:30-14:00
S501M07	The genome of two spotted spider mite <i>Tetranychus urticae</i> Miodrag Grbic, Thomas Van Leeuwen, Richard Clark, Mona Navajas, Yves Van de Peer, Isabel Diaz, Felix Ortega, Ronja Feyereisen, Vajislova Grbic	14:00-14:30
S501M08	Regulation of immune genes in silkworms: From transcriptome to individual genes Jitavaregowda Nagaraju	15:00-15:30
	Coffee/Tea Break	15:30-16:00
S501M09	Sequencing small and large insect genomes Hugh M. Robertson	16:00-16:30
S501M10	Molecular evolution in social insects Michael Goodisman	16:30-17:00
S501M11	Identification and analysis of conserved elements in social insect genomes Cal Li	17:00-17:30
S501M12	Comparative Genomics of Ants Juergen Rudolph Gadau, Lothar Wössler, Daniel F. Simola	17:30-18:00
S501M13	Identification and characterization of long noncoding RNA in the Locust <i>Locusta migratoria</i> reveals roles in phenotypic plasticity regulation Bing Chen, Yi Zhang, Xia Zhang, Gangqian Peng, Le Kang	18:00-18:30
S501M14	Genomic consequences of multiple speciation processes in a stick insect Patrik Hesel	18:30-19:00

### S 502

#### Insect transgenics: techniques and applications

Symposium Organizers: Anthony James(U.S.A.), Alfred M. Handler(U.S.A.), Anjiang Tan(China)

#### Room 16

August 20, Monday

Code No.	Presentation Title Authors: Presenting author	Time
S502M01	Transposon structure and function in multiple eukaryotic systems Peter Atkinson, Peter Armiststrong, Robert H. Price, Jennifer A. Wright, Nancy L. Craig	09:00-09:30

Code No.	Presentation Title Authors_Presenting author	Time
S502M02	Transposon-based genetic analysis in <i>Anopheles stephensi</i> David A. O'Brachta	09:30-10:00
S502M03	Transgenic silkworms for analysis of gene function and production of recombinant proteins Hidaki Sezutsu, Tokuya Tsubota, Mizuka Osanaka-Futahashi, Takao K. Suzuki, Kenji Iwata, Tatematsu, Iwata-Aoyama, Tetsuya Izuka, Keiro Uchino, Naoyuki Yanemura, Yoko Tokuo, Toshiaki Tamura	10:00-10:30
Coffee/Tea Break		10:30-11:00
S502M04	A new hAT-family transposon vector, hopper, from the Oriental fruit fly, <i>Bactrocera dorsalis</i> Alfred M. Handler	11:00-11:30
S502M05	Site-specific recombination for transgene targeting in tephritid genomes Marc F. Schetelig, Alfred M. Handler	11:30-12:00
S502M06	Genetic control of vector-borne pathogens Anthony A. James	12:00-12:30
Lunch		12:30-14:00
S502M07	Disrupting mosquito attraction to host cues by targeted mutagenesis of the orco olfactory co-receptor Matthew DeGennaro, Carolyn S. McBride, Laura Seeholzer, Takao Nakagawa, Chloe Goldman, Nanyie Jansma, Anthony A. James, Leslie B. Vosshall	14:00-14:30
S502M08	Development of 'male-only' strains of the New World screwworm fly, <i>Cochliomyia hominivorax</i> Maxwell John Scott, Felix Guerrero, Fang Li, Azaharombi Palveliam, Agustín Sagot	14:30-15:00
S502M09	A transgene-based maternally-driven RNAi system produces male-only progeny in the Mediterranean fruit fly, <i>Ceratitis capitata</i> Giuseppe Saccone, Marco Salvemini, Valeria Petrella, Rocca D'Amato, Carmelo Lino-Polito	15:00-15:30
Coffee/Tea Break		15:30-16:00
S502M10	Transgenic approach in the genetic control of Lepidopteran insects, <i>Bombyx mori</i> and <i>Ostrinia furnacalis</i> Anjiang Tan, Boqing Niu, Guoliang Fu, Luke Alphey, Zhiguo Meng, Yongjiang Huang	16:00-16:30
S502M11	First and second generation paratransgenesis for control of vector-borne diseases Ravi Durvasula	16:30-17:00
S502M12	Paratransgenesis to control the transmission of malaria David Lampe, Nicholas Bongio, Sibao Wang, Marcelo Jacobs-Lorena	17:00-17:30

## S 503

## Insect mitochondrial genomics

Symposium Organizers: Stephen Cameron(Australia), Iksoo Kim(Republic of Korea)

## Room 17

August 20, Monday

Code No.	Presentation Title Authors_Presenting author	Time
S503M01	Panarthropod phylogeny based on mitochondrial genomes Uli Wook Hwang, Shi Hyun Ryu, Eun Hwa Choi, Keum-Hat Jang	14:00-14:30
S503M02	Structure, evolution and phylogeny of polyneopteran mitogenomes Shachira Tomita, Natuo Komoto, Kenji Yukuhashi	14:30-15:00
S503M03	Phylogenetic, transcriptional and evolutionary studies of mitochondrial genomes for orthopteran insects Yuan Huang	15:00-15:30
Coffee/Tea Break		15:30-16:00
S503M04	What can mitochondrial genomes tell about beetle evolution?: Strengths and pitfalls of mitochondrial phylogenomics Hojun Song	16:00-16:30
S503M05	Mitogenomics of the Coleoptera underdense taxon sampling Alfred P. Vogler, Marjan J.T.N. Timmermans, Ladislav Bocak, Sojath N. Kuttu, Jon-Lem, Rine Nie	16:30-17:00

Code No.	Presentation Title Authors, Presenting author	Time
S503M06	Mitochondrial genome evolution in Hymenoptera Mark Dowton, Hong Mao, Andrew D. Ausio, Stephen L. Cunniff, Norman F. Johnson	17:00-17:30
S503M07	Phylogenetic position of Hesperidae in Lepidoptera using mitochondrial genome data with the description of newly sequenced skippers Iksoo Kim, Mui Jee Kim, Ah Rha Wang, Jeong Sun Park	17:30-18:00
S503M08	Insect mitochondrial genome database (IMGD): An integrated platform for insect mitochondrial genomes Wonhoon Lee	18:00-18:30

## S 504

Development and evaluation of improved strains of insect pests for sterile insect technique  
 Symposium Organizers : Gerald Franz(Austria), Kyeong-Yeoll Lee(Republic of Korea),  
 Ju-Woon Lee(Republic of Korea)  
 Co-hosted by The International Atomic Energy Agency (IAEA)

## Room 15

August 21, Tuesday

Code No.	Presentation Title Authors, Presenting author	Time
S504TU01	Regulation of transposons in pestiferous mosquitoes and tephritid fruit flies that are subjects of SIT programs Peter Atkinson, Peter Aneshko, Robert H. Rice, Jennifer A. Wright	09:00-09:30
S504TU02	Transgenic sexing system for <i>Ceratitidis capitata</i> (Diptera: Tephritidae) based on female-specific embryonic lethality Ernst A. Wimmer, I. Huston Eklund Ogoagwu	09:30-10:00
S504TU03	Transcriptional profiles of mating responsive genes from testes and male accessory glands of the mediterranean fruit fly, <i>Ceratitidis capitata</i> Lubek M. Gombosi, Francesco Scatena, Paolo Scatena, Paolo Gabrieli, Marco Falchetti, Mose Manni, Anna R. Motta-Rosa, Giuliano Gasperi	10:00-10:30
Coffee/Tea Break		10:30-11:00
S504TU04	Female-specific embryonic lethality strains for the Mexican fruit fly, <i>Anastrepha ludens</i> Man F. Schejbal, Alfred M. Handler	11:00-11:30
S504TU05	Assessment of genetic diversity of the olive fly Israeli SIT laboratory strain Nikola E. Zygoukidis, Yael Argon, Esther F. Nivinsky-Lotky, David Metzger, Kostas D. Mathiopoulos	11:30-12:00
S504TU06	Towards the development of improved sterile insect release protocols : Genome analysis of three Australian tephritid pests Shirley Gohring, Deborah Shearman, Margaret Forrester, Kathryn Raphael, William Shearman, Naouan Deshpande, Marc Wilkins, John Sweet	12:00-12:30
Lunch		12:30-14:00
S504TU07	Development and characterization of genetic sexing strains of the oriental fruit fly, <i>Bactrocera dorsalis</i> , and the guava fruit fly, <i>Bactrocera correctae</i> for SIT Sujinda Thanaphum, Srimani Kishore, Natchaya Akerawong	14:00-14:30
S504TU08	Approaching problems for <i>Anastrepha fraterculus</i> SIT with genetic and molecular tools: Reproductive strategy, sex determination, and loss of variability in the lab Jorge Luis Cladera, Mariana Jun, Alejandra Pineda, Cecilia Giardini, Silvia Lanzavecchia	14:30-15:00
S504TU09	Development and evaluation of genetic sexing strains of <i>Anastrepha ludens</i> for sterile insect technique Cristina Silvia Zepeda Cisneros, Jose Salvador Meza Hernandez, Jorge Ibanez Palacios, Victor Garza Martinez, Angel Humberto De Leon Cristobal, Hector Santiago Flores Garcia	15:00-15:30
Coffee/Tea Break		15:30-16:00
S504TU10	Improving the sterile sperm ID method for its implementation in the aw-SIT program against <i>C. capitata</i> in Spain Marta A. Juan Risco, Pedro Castaneda, Alberto Orduña, Beatriz Sabater Munoz	16:00-16:30

Code No.	Presentation Title Authors, Presenting author	Time
S504TU11	Field evaluation of a pupal color genetic sexing strain of the Mexican fruit fly, <i>Anastrepha ludens</i> Edwin Mauricio Ramirez, Pedro Rendon, Carlos Caceres, Raul Menéndez, Cristina Zúñiga, Diana Castro, Donald McIvor, Hugh Conway, John Stewart	16:30-17:00
S504TU12	Development of genetic sexing strains in the codling moth František Mareš, Radmila Čapková Frydrychová, Petr Nguyen, Václav Kuta, Michal Korandová, Alena Škárková, Jindra Šichová, Martina Dalková, Magda Vitková, Ken Sahara, Lila G. Neven	17:00-17:30
S504TU13	Role of the Y chromosome in the <i>Ceratitis capitata</i> sex determination and reproduction Giuseppe Saccone, Marco Salvemini, Rocco D'Amato, Archana Iamat, Valeria Petrella, Silvia Cialli, Romano Gialla, Daniela Marchini, Gerald Franz, Javaregowda Nagaraju, Cavella Leo Palao	17:30-18:00
S504TU14	Towards identifying sex determination pathway genes in the silkworm <i>Bombyx mori</i> for their possible use in genetic sexing strategies Javaregowda Nagaraju	18:00-18:30
S504TU15	Cross mobility of piggyBac-like elements Min Wu, Guanghua Luo, Xiaofang Wang, Zhaojun Han	18:30-19:00

## S 505

Sexual selection and sperm competition: Theories and applications  
Symposium Organizers: Qiao Wang (New Zealand)

## Room 16

August 21, Tuesday

Code No.	Presentation Title Authors, Presenting author	Time
	Welcoming Remarks	09:00-09:15
S505TU01	The role of apyrene sperm in the polyandrous swallowtail butterflies Mamoru Watanabe	09:15-09:30
S505TU02	Evolution of ultrasonic courtship signals through sensory bias in moths Ryo Nakano	09:30-09:45
S505TU03	The presence of rivals reduces reproductive fitness of male moths Jin Xu, Qiao Wang	09:45-10:00
S505TU04	Comparative evidence that copulatory spermatophore guarding is associated with smaller nuptial gifts and modifications in the form and/or use of the male's cerci in bushcrickets. Korim Yehed, James David Jensen Gilbert, Ludwina Barrientos Lazana, David E. Weisburd	10:00-10:15
S505TU05	What's so interesting about spider sperm? Marie E. Herberstein	10:15-10:30
	Coffee/Tea Break	10:30-11:00
S505TU06	Should inbreeding avoid or tolerate? Inbreeding avoidance or tolerance? Comparison of mating behavior between strong- and weak- inbreeding depression strains of the sweet potato weevil Takashi Kuriwada	11:00-11:15
S505TU07	Nuptial feeding diversity and its morphological basis in scorpionflies (Mecoptera: Panorpidae) Wen Zhang, Baozhen Hua	11:15-11:30
S505TU08	Scramble competition and sperm competition in a sexually cannibalistic mantis Gregory Ian Holwell	11:30-11:45
S505TU09	Sexual selection on <i>Toxotrypana curvicauda</i> Gerstaecker (Diptera: tephritidae) Alfredo Jimenez-Perez, Rene Arzuffi, Nancy Salmeron, Maria Patricia Villa Ayala, Lila Salazar-Morales, Norma Rivasoli	11:45-12:00
S505TU10	Male responses to sperm competition: Adaptation, or are males just paranoid? Zoeble Lewis, Anne Lize, Rowan Doll, Eve Smoller, Greg Hurst	12:00-12:15
S505TU11	Intra-specific variation in the effect of male-derived substances on female mating behaviours in <i>Callosobruchus chinensis</i> Takashi Yamane	12:15-12:30
	Lunch	12:30-14:00

## S 506

## Physiological genomics of the insect midgut

Symposium Organizers : Daniel Doucet(Canada), John Christeller(New Zealand)

## Room 16

August 21, Tuesday

Code No.	Presentation Title Authors: Presenting author	Time
S506TU01	Post-blood feeding changes in the transcriptomes of vector mosquitoes <i>Anthony A. James, W. Augustine Duru, Oswaldo Marmori, Xiaohu Xie</i>	14:00-14:30
S506TU02	Exploiting different host plants: A spider mite genomic and transcriptome perspective <i>Wannes Dermauw, Nicky Wybourne, Stéphane Bombauts, Mladag Gbenc, Richard M. Clark, Björn Menten, René Feyereisen, Luc Taty, Thomas Van Leeuwen</i>	14:30-15:00
S506TU03	Deconstruction of the plant primary cell wall: An insect perspective <i>Yannick Pauchet, Roy Kinch, Hanka Vogel, David G. Heckel</i>	15:00-15:30
	Coffee/Tea Break	15:30-16:00
S506TU04	Molecular organization of <i>Drosophila</i> gustatory receptors in enteroendocrine cells <i>Jong-Ho Park, Joo Young Kwon</i>	16:00-16:30
S506TU05	Midgut transcriptomics of an invasive insect species <i>Omprakash Mittapalli, Praveen Mansdala, Swapna Priya Rajarapu, Pierluigi Bonello, Daniel Hermis</i>	16:30-16:45
S506TU06	Transcriptomic responses of the lepidopteran midgut to xenobiotics <i>Guo-Fei Li-Golt, Mayra Gimeno, Frédérique Hillaire, Tran Trang, René Feyereisen</i>	16:45-17:00
S506TU07	CD36 family proteins are responsible for the tissue specific uptake of certain carotenoid species in the silkworm, <i>Bombyx mori</i> <i>Kazuo Tsuchida, Takashi Sakudoh</i>	17:00-17:15
S506TU08	Physiological genomics of lepidopteran larval digestive lipases <i>John Tane Christeller, Sawan Amara, Frederic Camere</i>	17:15-17:30
S506TU09	Tissue specific transcriptome of <i>Choristoneura fumiferana</i> larvae <i>Dayu Zhang, Daniel Doucet</i>	17:30-17:45
S506TU10	Midgut enzymes from the spruce budworm: A genome-scale investigation <i>Daniel Doucet, Dayu Zhang, Michel Cusson, Roger Levesque</i>	17:45-18:00

## S 507

## Small non-coding RNAs and genome expression

Symposium Organizers : Denis Tagu(France)

## Room 11

August 22, Wednesday

Code No.	Presentation Title Authors: Presenting author	Time
S507W01	Networks: Small non-coding RNAs write the screenplay <i>Denis Tagu, Volenim Wucher, Jacques Muelas</i>	09:00-09:15
S507W02	The role of microRNAs in host-pathogen interactions <i>Sassan Asgari</i>	09:15-09:45
S507W03	Non-coding RNAs in <i>Bombyx mori</i> <i>Yunchao Kan</i>	09:45-10:15
	Coffee/Tea Break	10:30-11:00
S507W04	Gender and stressor specific microRNA expression in <i>Tribolium castaneum</i> <i>Andreas Vilcinskas, Dalibor Plesnik, Edean Knaor, Monika Vogel</i>	11:00-11:30
S507W05	The roles of miRNAs in metamorphosis development in <i>Chilo suppressalis</i> (Walker) <i>Sun Yang, Yu-Lun Zhang, Yan, Li-Fei</i>	11:30-12:00
	Lunch	12:30-14:00

## S 508

## Evolutionary dynamics of insect acoustic communication

Symposium Organizers : Yikweon Jang (Republic of Korea), David Gray (U.S.A.)

## Room 12

August 22, Wednesday

Code No.	Presentation Title Authors, Presenting author	Time
S508W01	Genetic architecture of sexually selected traits in acoustic Lepidoptera <i>Michael D. Greenfield, Denis Limouzin, Sylvain Alem, Brjane Streiff</i>	09:00-09:30
S508W02	Acoustic communication and dynamics of mating investments in bushcrickets (Orthoptera: Tettigoniidae) <i>Gerlind U.C. Lehmann</i>	09:30-10:00
S508W03	Behavioral plasticity and host specialization in an acoustically orienting parasitoid <i>David Gray</i>	10:00-10:30
	Lunch	10:30-11:00
S508W04	Age and the effect of social interaction on animal personality <i>Chang Seok Han, Robert Brooks</i>	11:00-11:30
S508W05	Reproductive isolation between two closely related cricket species, <i>Gryllus fultoni</i> and <i>G. vernalis</i> <i>Yikweon Jang</i>	11:30-12:00
S508W06	Understanding reproductive isolation in duetting green lacewings through the quantitative genetics of song and preference <i>Suegene Noh</i>	12:00-12:30
S508W07	Plasticity of predator avoidance affect optimal timing of aposematic signaling in prey: Predictions from agent-based modelling <i>Woncheol Song, Piotr Grzegorz Jablonski, Sung-In Lee</i>	12:30-13:00
S508W08	Divergence in mating displays predicted by divergence in mate preferences, not their strength <i>Rodríguez Rafael, David Gray, Janette W. Bouffman, Eileen A. Hebets, Gerardo Hobel, Laurel B. Symes</i>	13:00-13:30

## S 509

## Musca domestica genetics and genomics

Symposium Organizers : Daniel Bopp (Switzerland), Leo Beukeboom (The Netherlands)

## Room 16

August 22, Wednesday

Code No.	Presentation Title Authors, Presenting author	Time
S509W01	The <i>Musca domestica</i> genome and transcriptome analysis in relation to insecticide resistance <i>Michael Kristensen, Jeff G. Scott, Narvin Liu, Andrew G. Clark</i>	09:00-09:30
S509W02	Sex and the housefly: Evidence for a conserved bifurcation of the sex-determining pathway <i>Daniel Bopp, Nicole Møller</i>	09:30-09:45
S509W03	The quest for the elusive male determining factors in the housefly <i>Leo W. Beukeboom, Daniel Bopp</i>	09:45-10:00
S509W04	Age-dependent manifestation of sex-linked wings fragility mutation in <i>Musca domestica</i> <i>Galina Benkovskaya</i>	10:00-10:15
	Coffee/Tea Break	10:30-11:00
S509W05	The transcriptome of hytrosavirus infected <i>Musca domestica</i> <i>Orlen Garth Boucias</i>	11:00-11:15
S509W06	The prospects for parasitoid-housefly interactions using genomic approaches <i>John Werren</i>	11:15-11:30
	Discussion	11:30-12:30
	Lunch	12:30-14:00

## S510

## Bioinformatics and the next-gen revolution

Symposium Organizers: Zhijian Jake Tu (U.S.A.), Xuan Li (China)

## Room 11

August 23, Thursday

Code No.	Presentation Title Authors, Presenting author	Time
S510TH01	Opportunities and challenges of non-model ecoinformatics Scott Emrich	09:00-09:30
S510TH02	Analyzing biodiversity for bulk insect samples using Illumina NGS Xin Zhou, Shanlin Lu, Yiyuan Li, Xu Su, Qing Yang, Ribei Fu	09:30-10:00
S510TH03	Sex, Y genes and gene duplications in <i>Anopheles</i> mosquitoes: Integrating bioinformatics, next-gen sequencing, and digital droplet PCR Zhijian Tu	10:00-10:30
	Coffee/Tea Break	10:30-11:00
S510TH04	Strain variation in the transcriptome of the dengue fever vector, <i>Aedes aegypti</i> Anthony A. James, Maningela Bonizzoni, W. Augustine Dunn, Corey L. Campbell, Oswaldo Marinotti, Ken E. Olson	11:00-11:30
S510TH05	De-novo transcriptome sequencing to identify the molecular underpinnings of seasonal adaptation in the Asian tiger mosquito, <i>Aedes albopictus</i> Peter Armbruster, Marica Paolichau, Christine Elvik, Aube Reynolds, David Denlinger	11:30-12:00
S510TH06	Genomic dissection of <i>Wolbachia</i> -dengue interactions in mosquitoes Zhiyong Xi, Xiaoling Pan, Guoli Zhou, Jiahong Wu, Guowu Blom, Peng Lu, Alexander S. Raikhet	12:00-12:30
	Lunch	12:30-14:00
S510TH07	Genomic analysis of inversion breakpoints revised the chromosomal phylogeny and evolutionary history of African malaria mosquitoes Igor V. Sharakhov, Maryem Kamal, Ai Xia, Zhijian Tu	14:00-14:30
S510TH08	Comparative genomics of insect pathogenic fungi Qiong Gao, Peng Zheng, Guohua Xiao, Chengshu Wang	14:30-15:00
S510TH09	Identifying microRNA genes from five important insect pests Fei Li, Yun Lu, Yang Sun	15:00-15:30
	Coffee/Tea Break	15:30-16:00
S510TH10	Functional genomic analysis of chelicerate species Xuan Li	16:00-16:30
S510TH11	Genome scale evolutionary analysis for revealing the oldest bacterial organism on the Earth Yoshio Tateo	16:30-17:00

## S511

## Advances in symbiosis

Symposium Organizers: Heike Feldhaar (Germany), Boaz Yuval (Israel)

## Room 14

August 23, Thursday

Code No.	Presentation Title Authors, Presenting author	Time
S511TH01	Bugs and drugs and speciation: The impact of mutualistic <i>Wolbachia</i> on <i>Drosophila</i> development, sexual behavior and symbiotic speciation Wolfgang J. Müller, Lee Ehirman, Daniela J. Schneider	09:00-09:30
S511TH02	Symbiont-mediated body colour change in aphids Tsutomu Tsuchida	09:30-10:00
S511TH03	Invited submission (session 5-6 Advances in symbiosis, talk 56-4): Evolution of symbiont-mediated antibiotic defense in solitary wasps Martin Koltenpoh	10:00-10:30
	Coffee/Tea Break	10:30-11:00



Code No.	Presentation Title Authors, Presenting author	Time
S511TH04	Insecticide resistance governed by endosymbiontic bacteria Yoshitomo Kikuchi, Masahiro Hayashi, Takahiro Hosokawa, Atsushi Nagayama, Kanako Tago, Takema Fukuchi	11:00-11:30
S511TH05	The role of the innate immune system of the ant <i>Camponotus floridanus</i> in regulation and maintenance of its endosymbiont <i>Blochmannia</i> Heike Feldhaar, Carolin Ratzka, Roy Grass	11:30-12:00
S511TH06	Symbiont-mediated invasive success of the Harlequin ladybird <i>Harmonia axyridis</i> Andreas Vileinskas, Henrike Schmidtberg, Kikan Stoeckel, Heiko Vogel	12:00-12:30
	Lunch	12:30-14:00
S511TH07	Prevalence of the symbiont <i>Cardinium</i> in <i>Culicoides</i> (Diptera: Ceratopogonidae) vector species Yuval Gottlieb, Neta Morag, Yonatan Sereya, Itamar Lensky, Eyal Klement	14:00-14:30
S511TH08	Repeated interactions and the evolution of dependence in insect symbiosis Fabrice Vavre	14:30-15:00
S511TH09	Tsetse-Wolbachia symbiotic associations Konstantinos Bourzis	15:00-15:30
	Coffee/Tea Break	15:30-16:00
S511TH10	Symbionts and fitness of Tephritid fruit flies Boaz Yuval	16:00-16:30
S511TH11	Identification of a new secondary symbiont in the whitefly <i>Bemisia tabaci</i> (Hemiptera: Aleyrodidae) Xiao-Li Bing, Jiao Yang, Shu-Sheng Liu, Xiao-Wei Wang	16:30-17:00

## S512

## Evolutionary genomics of social behavior

Symposium Organizers: Christina Grozinger (U.S.A.), Juergen Gadau (U.S.A.)

## Room 16

August 23, Thursday

Code No.	Presentation Title Authors, Presenting author	Time
S512TH01	Molecular and cellular mechanisms of self-sacrificing gall repair by soldier nymphs in the social aphid Mayako Kutsukake	09:00-09:30
S512TH02	The genome of the socially-polymorphic halictid bee, <i>Lasioglossum albipes</i> Sarah D. Koeber, Gwagye Zhang, Li Cai, Hapi E. Hoekstra, Noomi E. Pierce, Douglas Yu	09:30-10:00
S512TH03	Genomics of pheromone communication in honey bees Osnat Malka, Liora Elina, Grainger Christina, Hefetz Abraham	10:00-10:15
S512TH04	100 million years of social evolution? Lessons learned from seven ant genomes Juergen Rudolf Gadau, Martin Helmkamp, Sonja Nygaard, Julien Roux, Daniel F. Simola, Chris R. Smith, Gunnar Suen, Yannick Wurm, Christopher D. Smith	10:15-10:30
	Coffee/Tea Break	10:30-11:00
S512TH05	What makes a termite queen: Genes involved in maintaining reproductive division of labour Johannes Gwyn, Judith Ingrid Korb	11:00-11:15
S512TH06	Genomics of social behavior in fire ants John Wang	11:15-11:45
S512TH07	Sociogenomics of conflict and cooperation in fire ant queens Fabio Manfredini, Oksana Riba Grogan, Yannick Wurm, Laurent Keller, DeWayne D. Shoemaker, Christina M. Grainger	11:45-12:15
S512TH08	Immunity in social insects: Insights from two <i>Bombus</i> genomes Seth Barrisbeau, Ben Sadd, Paul Schmid Hempel	12:15-12:45
	Lunch	12:30-14:00

## S513

## Insects and biofuels

Symposium Organizers : Jianzhong Sun(China), Xuguo Zhou(U.S.A.)

## Room 11

August 24, Friday

Code No.	Presentation Title Authors_Presenting author	Time
S513F01	Insects as micro-scale biomass conversion systems and diversity of their lignocellulolytic enzymes <i>Mitsumasa Watanabe</i>	09:00-09:30
S513F02	A comprehensive dissection of lignocellulolytic enzymes in a wood-feeding cockroach, <i>Cryptocercus punctulatus</i> <i>Xianghui Li, Xuguo Zhou</i>	09:30-10:00
S513F03	Screening, expression and characterizing novel cellulases and hemi-cellulases from metagenomic libraries of termite guts <i>Ling Liu, Xing Yan, Qianli Wang, Chaoqi Qian, Lei Zhang, Qian Wang, Yongping Huang, Zhihua Zhou</i>	10:00-10:30
Coffee/Tea Break		10:30-11:00
S513F04	Integration of the lignocellulolytic systems of insects to biofuels industries <i>Jianzhong Sun</i>	11:00-11:30
S513F05	Digestion from within: Improving biomass feedstock through engineering multifunctional lignocellulose degrading enzymes using termite and wood roach lignocellulases <i>Ling Yuan, Xuguo Zhou</i>	11:30-12:00
Lunch		12:30-14:00

## S514

## Genomics and functional genomics of Non-Drosophilid Diptera Insects

Symposium Organizers : Charalambos (Babis) Savakis(Greece), Giuliano Gasperi(Italy)

## Room 11

August 24, Friday

Code No.	Presentation Title Authors_Presenting author	Time
S514F01	Profiling the mosquito transcriptome: Case studies of <i>Aedes aegypti</i> and <i>Anopheles gambiae</i> <i>Mariangela Bonizzoni, William Augustine Dunn, Corey L. Campbell, Ken E. Olson, Osvaldo Marinotti, Guiyun Yan, Anthony A. James</i>	14:00-14:30
S514F02	Application of functional genomics and transcriptomics to understanding lactation in the tsetse fly ( <i>Glossina morsitans morsitans</i> ) <i>Geoffrey Michael Attardo, Joshua Benoit, Veronika Michalkova, Serap Aksay</i>	14:30-15:00
S514F03	Transcriptome profiling of sexual maturation and mating in the Mediterranean fruit fly, <i>Ceratitis capitata</i> <i>Ludvik M. Gamutski, George Dimopoulos, Zhiyong Xi, Francesca Scolari, Paolo Gabrial, Paolo Siciliano, Anthony R. Clarke, Anna R. Malacrida, Giuliano Gasperi</i>	15:00-15:30
Coffee/Tea Break		15:30-16:00
S514F04	Cell death genes and their use in Tephritid pest control <i>Marc F. Schetelig, Alfred M. Handler</i>	16:00-16:30
S514F05	Genome annotation and functional genomics of insect olfactory binding proteins <i>Jing-Jiang Zhou, Linda Mary Field</i>	16:30-17:00
S514F06	The genome of <i>Clunio marinus</i> (Chironomidae, Diptera): A marine insect gives insights into circalunar and circadian clocks <i>Tobias S. Kalsner, Lam-Tung Nguyen, Tobias Neumann, Andrei Van Hoeselers, Kristin Tessmar-Raible</i>	17:00-17:30

## S515

## RNAi methods for controlling insects and their pathogens

Symposium Organizers : S.R. Palli(U.S.A.), Guy Smaghe(Belgium), Qili Feng(China)

## Room 12

August 24, Friday

Code No.	Presentation Title Authors, Presenting author	Time
S515F01	The mode of action of dsRNA for control of western corn rootworm ( <i>Diabrotica virgifera virgifera</i> ) larvae Renata Bolaglesi, Parthasarathy Ramasubramanian, Ronald Flannagan, William Meier, Gerrit Segers	09:00-09:30
S515F02	RNAi-aided baculovirus resistance in the transgenic silkworm: Application to sericulture Javaregowda Nagaraju, E.V. Subbalakshmi, C. Royer, S. Kanginakudru, A. Sabhan Babu, V.V. Satyavathi, P.J. Raju, B. Mauchamp, G. Chavancy, P. Coublé	09:30-10:00
S515F03	Identification of fecundity related genes of the brown plant hopper through RNA interference WenQing Zhang, Jianqiang Zhang, Yifan Zhao, Jing Chen, Rong Yu, Yuan Ma, Xiaolin Dong	10:00-10:30
Coffee/Tea Break		10:30-11:00
S515F04	RNAi for biological control Teruyuki Naito, Takahiro Ohde, Toshiyuki Yaginuma	11:00-11:30
S515F05	RNAi of transcription factor BmPOUM2 for regulation of development of silkworm wing discs during metamorphosis Huimin Deng, Jialing Zhang, Yang Li, Sichun Zheng, Ling Liu, Lihua Huang, Qili Feng	11:30-12:00
S515F06	RNA interference to identify lethal genes involved in chitin metabolism of <i>Locusta migratoria</i> Jianzhong Zhang, Daqi Li, Xiaojin Liu, Yaping Guo, Enbo Ma, Kun Yan Zhu	12:00-12:30
S515F07	Embryo lethal genes for pest control Bochang Xu, Anjiang Yan, Yongping Huang, Zhiqi Meng	12:30-13:00
Lunch		12:30-14:00

## Section 6 Behavior and Chemical Ecology

Conveners: Le Kang(China), Meron P. Zalucki(Australia)

### S 601

The prospect of manipulating herbivore-induced plant volatiles to improve the biological control of pest insects

Symposium Organizers: Ted Turlings(Switzerland), Junji Takabayashi(Japan), Yonggen Lou(China)

#### Room 17

August 21, Tuesday

Code No.	Presentation Title Authors_Presenting author	Time
S601TU01	What plant-produced volatiles should we target to improve biological control? <i>Ted Turlings</i>	09:00-09:15
S601TU02	Selecting volatiles in the field to protect brassicaceous crops against the cabbage root fly, <i>Delia radicum</i> <i>Anne-Marie Cortesero, Alain Kengoutraud, Anne Le Ralec, Sébastien Dugravot</i>	09:15-09:30
S601TU03	Induced plant semiochemical production to potentiate conservation biological control <i>John Anthony Pickett</i>	09:30-09:45
S601TU04	Developing new measures for rice pest management via chemical elicitor-based manipulation of volatile signals <i>Yonggen Lou</i>	09:45-10:00
S601TU05	How to improve a crop plant's ability to recruit of bodyguards? <i>Marcel Dicke</i>	10:00-10:15
S601TU06	Biological control using plant volatiles that attract specialist parasitic wasps of target pests <i>Masayoshi Uefune, Junji Takabayashi</i>	10:15-10:30
Coffee/Tea Break		10:30-11:00
S601TU07	Manipulation of belowground scents for enhanced plant protection <i>Ivan Hiltpold, Bruce E. Hibbard, Ted C.J. Turlings</i>	11:00-11:15
S601TU08	Relative importance of host-derived and plant-derived volatiles in the attraction of the larval parasitoids <i>Cotesia marginiventris</i> and <i>Microplitis rufiventris</i> <i>Cristina Tama, Matthias Held, Ted Turlings</i>	11:15-11:30
S601TU09	Comparison of production of volatiles emitted by greenhouse vegetables damaged by two-spotted spider mite and their attractiveness to the predator <i>Scolothrips longicornis</i> <i>Neda Kheradpir, Mohammadreza Rezapourah, Kaveh Kamali, Yaghoob Fathipour</i>	11:30-11:45
S601TU10	Effects of inter- and intra-specific plant volatile interactions on aphids and ladybirds <i>Veslemir Niskovic, Inger Almar, Iris Dahlén, Martin Kellner, Robert Glenwood</i>	11:45-12:00
S601TU11	Identification of volatile compounds emitted by <i>Artemisia ordosica</i> and changes due to mechanical damage and weevil-infestation <i>Hui Zhang, Shixiang Zeng</i>	12:00-12:15
Lunch		12:30-14:00

### S 602

Exploiting inducible plant defences in agriculture- possibilities and prospects

Symposium Organizers: Mike Furlong(Australia)

#### Room 17

August 21, Tuesday

Code No.	Presentation Title Authors_Presenting author	Time
S602TU01	Inducible responses to herbivory affect diamondback moth oviposition patterns and negatively affect larval predation. <i>Michael John Furlong, Rebekah Silva</i>	14:00-14:15
S602TU02	The chemical heterogeneity of plant defence is exploited by insects to avoid harm and find safe havens <i>Bramwen W. Cribb, Lynda E. Perkins, Philip B. Brewer, Jim Hanan, Myron P. Zalucki</i>	14:15-14:30

Code No.	Presentation Title Authors, Presenting author	Time
S602TU03	Using transgenic <i>Arabidopsis</i> plants containing a luciferase reporter gene to map the spatial and temporal expression of genes involved in plant defence against herbivory. <i>Lynda Perkins, Bronwen Cribb, Philip B. Brewer, Jim Honan, Myron P. Zalucki</i>	14:30-14:45
S602TU04	Salicylic acid signaling plays an important role in mediating indirect plant defense against whitefly <i>Peng-jun Zhang, Yao-bin Lu</i>	14:45-15:00
S602TU05	Effects of tomato plants responses induced by <i>Frankliniella occidentalis</i> on the behavioural response and host preference of <i>Bemisia tabaci</i> <i>Yaobin Lu, Xiaoxing Li, Weidi Li, Pengjun Zhang</i>	15:00-15:15
Coffee/Tea Break		15:30-16:00
S602TU06	Soil microbial community and plant-insect interactions <i>Kiran Ramesh Gadhave, Alan C. Gange</i>	16:00-16:15
S602TU07	Whitefly infestation elicits defense responses against bacterial pathogens on the leaf and root and belowground dynamic change of microflora in pepper <i>Chang-Min Ryu</i>	16:15-16:30

## S 603

Insect-host interactions: sensory and chemical profiles on host specificity  
Symposium Organizers: Kye Chung Park(New Zealand), Chung Gyoo Park(Republic of Korea)

## Room 18

August 22, Wednesday

Code No.	Presentation Title Authors, Presenting author	Time
S603W01	The chemical ecology involved in cuckoo bumblebee offspring survival in host nest <i>Patrick Pierre Lhomme, Manfred Ayasse, Jieyi Vukobratovic, Pierre Rasmont</i>	09:00-09:15
S603W02	Feeding and oviposition preference of <i>Frankliniella occidentalis</i> for crop and weed species commonly occurring in French bean fields in Kenya <i>Johnson Dunga Nyasani, Rainier Meyhofer, Subramanian Sevgon, Hans-Michael Poehling</i>	09:15-09:30
S603W03	Responses of <i>Riptortus pedestris</i> (Hemiptera: Alydidae) to host food and of <i>Apolygus spinolae</i> (Hemiptera: Miridae) to host volatiles <i>Eugene Lim, Hyun Sik Ro, Chung Gyoo Park</i>	09:30-09:45
S603W04	Study on maize pollen volatile compounds as potential attractant to blood fed and unfed female <i>An. arabiensis</i> under laboratory <i>Betelehem Wondwesen Haifu, Tesnu Seyoum, Rickard Ignell, Shaqin Hill</i>	09:45-10:00
S603W05	Attraction of female <i>Anopheles stephensi</i> mosquitoes to the spores of entomopathogenic and non-entomopathogenic fungi <i>Thomas Baker, Justin George, Simon Blanford, Nina Jenkins, Matthew Thomas</i>	10:00-10:15
S603W06	GC-EAD analyses of phytophagous insects to volatiles from different host plants <i>Li Chen</i>	10:15-10:30
Coffee/Tea Break		10:30-11:00
S603W07	Olfactory receptor neurons and host specificity in phytophagous insects <i>Kye Chung Park</i>	11:00-11:15
S603W08	Response of female <i>Bactocera papayae</i> (Diptera: Tephritidae) on five mango varieties <i>Agus Susanto Suryane</i>	11:15-11:30
S603W09	Fatty acid amino acid conjugates diversification in lepidopteran caterpillars and physiological adaptation found in plants to the FACs <i>Noeki Mori, Naoko Yuhmaga</i>	11:30-11:45
S603W10	Gall aphids manipulate plant volatiles for defence against vertebrates <i>Michael Rostas, Moïse Imbar</i>	11:45-12:00
S603W11	Non-host volatiles to control bark beetles - A new forest protection method under development <i>Carl Rickard Orellius</i>	12:00-12:15
Lunch		12:30-14:00

## S 604

New science for sustainable insect pest control based on chemical ecology  
Symposium Organizers : John Pickett(United Kingdom), Mike Birkett(United Kingdom)

## Room 17

August 22, Wednesday

Code No.	Presentation Title Authors. Presenting author	Time
S604W01	Delivering robust semiochemical based crop protection via the seed <i>John Anthony Pickett</i>	09:00-09:30
S604W02	Impacts of microbial associations on plant-insect <i>Consuelo M. De Moraes</i>	09:30-09:45
S604W03	Airborne interactions between different plant cultivars- Effects on aphids and their natural enemies <i>Robert Glinwood</i>	09:45-10:00
S604W04	Attract to kill: enhancing effectiveness of mobile and immobile biological control agents <i>Marcel Dicke</i>	10:00-10:15
S604W05	Exploiting chemical ecology of insect-plant and plant-plant interactions in developing novel IPM strategies for Africa <i>Zeyaur Khan, Charles Midega, Toby Bruce, Tany Haopet, John Pickett</i>	10:15-10:30
Coffee/Tea Break		10:30-11:00
S604W06	New frontiers for manipulation of beneficial insects in crop protection: from chemical to multimodal communication. <i>Miguel Borges, Raul Alberto Laumann, Maria Carolina Blassiali-Moraes</i>	11:00-11:15
S604W07	Sex pheromones of mirid bugs: Old problems and new solutions <i>David Robert Hall, Jerry V. Cross, Michelle Fountain, Joe Sarfa, Colin Campbell</i>	11:15-11:30
S604W08	A first step towards the control of a major root pests: Using chemical ecology to understand why it is a pest <i>Ted Turlings</i>	11:30-11:45
S604W09	Elucidating the chemical ecology of belowground plant-plant communication <i>Emilio Guerinier, Pasquale Cascone, Luigi Rodice, Sarah Y. Dewhurst, Janet Martin, John A. Pickett, Michael A. Birkett</i>	11:45-12:00
S604W10	Elicitation of plant defence by small lipophilic molecule activators: Understanding underlying mechanisms and towards use in crop protection <i>Michael A. Birkett</i>	12:00-12:15
	Discussion	12:15-12:30
Lunch		12:30-14:00

## S 605

Chemically-mediated host plant selection, a complex and challenging topic  
Symposium Organizers : Silvia Dorn(Switzerland), Jianghua Sun(China)

## Room 17

August 23, Thursday

Code No.	Presentation Title Authors. Presenting author	Time
S605TH01	Patterns of attraction of herbivore pests to plant volatiles <i>Cesar Rodriguez-Saona, Zsófia Szendrői</i>	09:00-09:15
S605TH02	Influence of mating on responses of <i>Helicoverpa armigera</i> moths to synthetic plant volatiles <i>Alice Del Socorro, Peter Gregg</i>	09:15-09:30
S605TH03	How fruit moths recognize host plant odors <i>Silvia Dorn, Adriana Najjar-Rodriguez, Jasme Pinero</i>	09:30-09:45
S605TH04	Microbial odors mediate host finding in insect herbivores <i>Peter Witzgall</i>	09:45-10:00
S605TH05	Attacking behavior and its communication of an invasive bark beetle <i>Dendroctonus valens</i> <i>Zhudong Liu, Jianghua Sun</i>	10:00-10:15
S605TH06	Do novel fungal genotypes drive the success of an invasive bark beetle/pine host/fungus complex? <i>Min Lu, Jianghua Sun</i>	10:15-10:30

Coffee/Tea Break		10:30-11:00
S605TH07	The role of kairomones in the mating sequence of cerambycid beetles <i>Jacob D. Wickham</i>	11:00-11:15
S605TH08	Chemo-ecological risk assessment of European beech ( <i>Fagus sylvatica</i> ) stands along a precipitation gradient in Germany <i>Christine Rachow, Martin Gabriel, Stefan Schutz</i>	11:15-11:30
S605TH09	Direct and indirect effects of a <i>Tospovirus</i> on the behavior and biology of <i>Frankliniella fusca</i> , a <i>Tospovirus</i> vector <i>Rajagopalbabu Srinivasan, Anita Shrestha, David Riley, Albert Culbreath</i>	11:30-11:45
S605TH10	How flowers attract pollinator beetles in annonaceous fruit trees? <i>Maria Tsukada, Keisuke Nagasawa, Toshiharu Akino</i>	11:45-12:00
Lunch		12:30-14:00

## S 606

## Mechanisms of insect odorant detection

Symposium Organizers: Walter Leal(U.S.A.), Chen-Zhu Wang(China), Yukio Ishikawa(Japan)

## Room 17

August 23, Thursday

Code No.	Presentation Title Authors: Presenting author	Time
S606TH01	The Molecular Making of the Insect's Olfactory System <i>Walter S. Leal</i>	14:00-14:30
S606TH02	Odorant activation of insect olfactory receptors is inhibited by antagonism of the odorant receptor co-receptor subunit <i>Charles W. Luetjke, Siu Chen</i>	14:30-14:45
S606TH03	Evolution of sex pheromone production and reception systems in <i>Ostrinia</i> moths <i>Yukio Ishikawa</i>	14:45-15:00
S606TH04	Peripheral coding of sex pheromone blends with reverse ratios in two <i>Helicoverpa</i> species <i>Chen-Zhu Wang, Han Wu, Chao Hou, Xiao-Jing Jiang, Dan-Dan Zhang, Ling-Qiao Huang</i>	15:00-15:30

## Coffee/Tea Break

15:30-16:00

S606TH05	A peripheral 'memory' in the <i>Drosophila</i> olfactory system <i>Bill S. Hansson, Merid Ghehlem, Shannon B. Olsson, Sofia Lavista-Llanos, Vardanyush Saigyan, Kerstin Possemann, Dieter Wicher</i>	16:00-16:30
S606TH06	Molecular genetic studies on the <i>split</i> locus controlling pheromone preference in the silkworm, <i>Bombyx mori</i> <i>Toru Shikada, Tsuguru Fujii, Huabing Wang, Takeshi Fujii, Hiroaki Abe, Akio Ohnuma, Yukio Ishikawa, Takashi Kiuchi, Susumu Katsuma</i>	16:30-16:45
S606TH07	Coevolution of moth pheromone production and response in two model systems <i>Christen Jan Lafstedt, Dan-Dan Zhang, Jean-Marc Lassance</i>	16:45-17:00
S606TH08	Working Range of Stimulus Flux Transduction Determines Dendrite Size and Relative Number of Pheromone Component Receptor Neurons in Moths <i>Thomas Baker</i>	17:00-17:30

## S 607

## Semiachemical application: From sex to alarm

Symposium Organizers: Alex Ilchev(Australia), Man-Yeon Choi(U.S.A.), Robert VanderMeer(U.S.A.)

## Room 14

August 24, Friday

Code No.	Presentation Title Authors: Presenting author	Time
S607F01	A novel control strategy against an invasive Argentine ant population by combining an insecticidal bait with a synthetic trail pheromone component <i>Sadahiro Tatsuki, Shun Suzuki, Eivori Sunamura, Hironori Sakamoto, Ryo Nishikie, Mamoru Terayama, Yukio Ishikawa, Hideaki Mori, Toshiro Kishimoto, Yasaburo Utsumi, Takehiko Fukumoto</i>	09:00-09:15

Code No.	Presentation Title Authors, Presenting author	Time
S607F02	Control of <i>Riptortus pedestris</i> : Pheromone synthesis and trap development Junheon Kim, Kwang-Sik Cha, Bu-Kwon Chung, Chung Gyoa Park	09:15-09:30
S607F03	Success and fail in monitoring two sibling species of genus <i>Matsumuraesia</i> (Tortricidae) with same sex pheromone components in a same field Jin Kyo Jung, Bo Yoon Seo, Jum Rae Cho, Chang Gyu Park, Ji Hong Yum	09:30-09:45
S607F04	Sex pheromone blends for monitoring clearwing moths in Korean orchards Chang Yeol Yang, Sung Jang Kim, Myoung Rae Cho	09:45-10:00
S607F05	Sex pheromone composition of <i>Ascotis selenaria</i> (Lepidoptera: Geometridae) and its regional variation in Korea Kyungsan Choi, Young Mi Park, Kyung Hee Choi, Dong Hwon Kim, Dong Soan Kim	10:00-10:15
S607F06	Fire ant alarm pheromone and application Man-Yeon Choi, Robert K. Vander Meer	10:15-10:30
S607F07	Effect of minor components on mating disruption of light brown apple moth David Maxwell Suckling, Tes Sullivan, Ed Stringer, Re Butler, Don Campbell, A. Twidlo, Wt. Allen, A. Maria Neto, AM. El-Sayed	10:30-10:45
Coffee/Tea Break		10:30-11:00

## S 608

Botanically-derived bioactive compounds:  
Insecticides, repellents, attractants and antifeedants

Symposium Organizers: Robert Spooner-Hart(Australia),

Young-Joon Ahn(Republic of Korea)

## Room 19

August 24, Friday

Code No.	Presentation Title Authors, Presenting author	Time
S608F01	Identification and assessment of a botanical termiticide from <i>Eremophila mitchellii</i> Robert N. Spooner-Hart, David N. Leach, Karen Beattie, Albert H. Bonte, Amanda Reichelt-Brusshett, Aaron Pallack	14:00-14:30
S608F02	Combined neem oil and eucalyptus oil lotion: In vitro and in vivo efficacy study for the treatment of head lice Don Brushett, Prasut Thawornchaiat, Weerawat Amornsak, Pakpinn Mahanop, Carol Morris	14:30-15:00
S608F03	Plant essential oils as repellents for agricultural pest management Murray B. Isman, Claudio de Camargo	15:00-15:30
Coffee/Tea Break		15:30-16:00
S608F04	Bioactivity of extracts from <i>Tripterygium wilfordii</i> against insects Xuping Shentu, Zheng Mo, Xiaoping Yu	16:00-16:30
S608F05	Effect of guava fruit surface substances on oviposition behavior of oriental fruit fly ( <i>Bactrocera dorsalis</i> Hendel) Kai-ge Chen, Xinnian Zeng	16:30-17:00
S608F06	Development and use of a natural plant extract (semiochemical) for the management of pests and beneficial insects on cotton cropping systems in Australia Robert Kofi Mensah, Nick Watts, Alison Young	17:00-17:30



## Section 7 Insect related Interactions at a Multi-trophic Ecosystem

Conveners : Junji Takabayashi(Japan), Jeremy McNeil(Canada)

### S 701

**Phloemophagous insects: Strategies and impacts on plants**

Symposium Organizers : Philippe Giordanengo(France), Christine Coustau(France), Charles Vincent(Canada)

Room 18

August 20, Monday

Code No.	Presentation Title Authors, Presenting author	Time
S701M01	Electrical penetration graphs during brief phloem punctures by aphid stylets <i>Freddy Tjallingii</i>	09:00-09:30
S701M02	Role of immune regulators in controlling aphid / plant interactions <i>Geradine Dubreuil, Philippe Giordanengo, Didier Crochard, Emeline Deleury, Antonin Schmitt, Jean-Christophe Simon, Christine Coustau</i>	09:30-09:45
S701M03	Behaviour and physiology of aphids related to potato resistance <i>Yvan Pelletier, Julien Pompon</i>	09:45-10:00
S701M04	Unravelling the mechanisms of resistance to bluegreen aphid and pea aphid in the model legume <i>Medicago truncatula</i> <i>Karam Singh, Lars Kampthuis, Sammi Guo, John Klingler, Lingling Gao, Owain Rhys Edwards</i>	10:00-10:15
S701M05	Plant vigour and amino acid content and host utilisation by free-living eucalypt psyllids <i>Martin Steinbauer</i>	10:15-10:30
	Coffee/Tea Break	10:30-11:00
S701M06	Use of Fluorescence, a novel technique to determine reduction in feeding of phloemophagous insects when exposed to Cyazypyr <sup>TM</sup> and other insecticides <i>Juan Manuel Alvarez, Rachel A. Cameron, Edward B. Long, Hector E. Portillo, Jason D. Scott, J. Billy Annon</i>	11:00-11:15
S701M07	Resistance of sugarcane, <i>Saccharum</i> spp., to the sugarcane aphid, <i>Melanaphis sacchari</i> (Zehntner) (Hemiptera: Aphididae), the vector of Sugarcane yellow leaf virus <i>Benjamin Fayek, Samuel Nibourchie, Patrick Turpin, Laurent Costet, Bernard Reynaud</i>	11:15-11:30
S701M08	Cross talks between plant and insects can be perceived by infecting viruses: Putative ecological consequences <i>Stephane Blanc, Aurelie Bok, Alexandre Martiniere, Martin Drucker</i>	11:30-11:45
S701M09	Characterising interactions between the common brown leafhopper <i>Orosius orientalis</i> and selected nutritional sources <i>Pieter Trebbick, Freddy Tjallingii, Rob Harding, Brendan Rondani, Kevin S. Powell</i>	11:45-12:15
S701M10	Impact of leafhoppers that vector phytoplasma in oilseed crops in the Canadian prairies <i>Chrystel Olivier, Brian Galka</i>	12:15-12:30
	Lunch	12:30-14:00
S701M11	Insect vectors of plant pathogens threatening agricultural production in Sudan <i>Abdalla Abdelrahman Satti</i>	14:00-14:15
S701M12	Investigating the impact of elevated CO2 on wheat, Barley yellow dwarf virus and its aphid vector <i>Rhopalosiphum padi</i> <i>Pieter Trebbick, Angela Freeman, Rebecca Vanclopper, Kevin Steven Powell, Glenn Fitzgerald, Nilsa A. Bosque-Perez, Jo Luck</i>	14:15-14:30
S701M13	Vegetable oil for PVY control <i>Arnaud Ameline, Mouria Khelifa, Soame Gerson, Christine Rusterucci, Josselin Penisson, Philippe Giordanengo</i>	14:30-14:45
S701M14	Aphids acquired symbiotic genes from bacteria <i>Atrushi Nakabachi</i>	14:45-15:00
	Coffee/Tea Break	15:30-16:00

## S 702

Multitrophic interactions under changing environmental conditions  
Symposium Organizers: Jarmo Holopainen(Finland), Stefano Colazza(Italy)

## Room 11

August 20, Monday

Code No.	Presentation Title Authors, Presenting author	Time
	<b>Opening &amp; Welcoming Remarks</b> <i>Jarmo Holopainen</i>	09:00-09:15
5702M01	Predicting the effects of climate change on mealybugs and their natural enemies in grapevines in Australia <i>Linda Thomson, Ary Hoffmann</i>	09:15-09:45
5702M02	Trophic interactions along climatic gradients with <i>Neodiprion sertifer</i> as a model species <i>Ida Kolberg, Helena Bylund, Christer Bjorkman</i>	09:45-10:15
5702M03	Climate change impact on extrinsic and intrinsic competition between egg parasitoids <i>Antonino Cusumano, Ezio Peri, Stefano Colazza</i>	10:15-10:30
	<b>Coffee/Tea Break</b>	10:30-11:00
5702M04	Efficiency of volatile multitrophic signals under changing environmental conditions <i>James Blomde</i>	11:00-11:30
5702M05	Invaders, parasitoids and cyclic resident dynamics - A fatal equation? <i>Tea Ammune, Tero Klemola, Kalle Parvinen</i>	11:30-12:00
5702M06	Constant versus fluctuating temperatures in the interactions between <i>Plutella xylostella</i> and its larval parasitoid <i>Diadegma insulare</i> <i>Ms. Habibullah Bazar, Juliana Soroka, Lloyd Dasdoli, Owen Olfert</i>	12:00-12:15
	<b>Closing Remarks</b> <i>Stefano Colazza</i>	12:15-12:30
	<b>Lunch</b>	12:30-14:00

## S 703

Next generation study of multitrophic interactions  
Symposium Organizers: Wilhelm Boland(Germany), Gen-ichiro Arimura(Japan)

## Room 18

August 21, Tuesday

Code No.	Presentation Title Authors, Presenting author	Time
5703TU01	Host plant shift caused loss of a biosynthetic enzyme in larvae of <i>Chrysomela lapponica</i> (Chrysomelinae) <i>Wilhelm Boland, Roy Kirsch</i>	09:00-09:30
5703TU02	Precise RNAi mediated silencing of metabolic active proteins in defense secretions of juvenile leaf beetles <i>Anja Burse, Peter Rabfeld, Rene Roberto Rodemann, Magdalena Stock, Natalie Welsch, Maritta Kunert, Wilhelm Boland</i>	09:30-10:00
5703TU03	Effects of floral volatiles on plant indirect defense against herbivory: Flowering transgenic torenia plants as a new tool <i>Takeshi Shimoda</i>	10:00-10:15
5703TU04	Microorganisms in spider mites ( <i>Tetranychus urticae</i> ) regulate ecological interactions with lima bean plants <i>Rika Ozawa</i>	10:15-10:30
	<b>Coffee/Tea Break</b>	10:30-11:00
5703TU05	Interactions between tomato volatile organic compounds and aphid behaviour <i>Emilio Guerrieri, Pasquale Cascone, Luigi Iodice, Maria Cristina Diglio</i>	11:00-11:30
5703TU06	Effects of plant-plant signaling on the colonization and the diversity of arthropods on willow plants <i>Kinuya Yoneya, Junji Takabayashi</i>	11:30-11:45
5703TU07	Tritrophic interactions among tospovirus, thrips and Arabidopsis <i>Hiroshi Abe, Yasuhiro Tomizaka, Shigemi Seo, Tamiko Sakurai, Seichi Kugimiya, Takeshi Shimoda, Shinya Tsuda, Masamoto Kobayashi</i>	11:45-12:00
5703TU08	Contribution of metabolomics and transcriptomics to understanding of plant defense against herbivores <i>Ivan Galis, Ian T. Baldwin</i>	12:00-12:30

## S 704

Plant-mediated effects on the ecology and evolution of multitrophic interactions  
 Symposium Organizers : Raul Medina(U.S.A.), Betty Benrey(Switzerland), David Giron(France)

## Room 20

August 22, Wednesday

Code No.	Presentation Title Authors, Presenting author	Time
S704W01	Ecological and evolutionary aspects of indirect interaction webs <i>Takayuki Ohgushi</i>	09:00-09:30
S704W02	Root feeders and above-ground multi-trophic interactions <i>Scott Nicholas Johnson</i>	09:30-09:45
S704W03	Breaking down plant defenses: Cross-talk mediating facilitation in inter-guild interactions <i>Roxana Soler Gambareno</i>	09:45-10:00
S704W04	Localized plant induction: Impact on insect fitness and disease resistance <i>Bana M. Sarfraz, Jenny S. Cory, Judith H. Myers</i>	10:00-10:15
S704W05	Coping with a senescing environment: When insect reveal to plants the secret of eternal youth <i>David Giron, Wilfried Kalses, Melanie Bady, Franck Dedevne, Carlos Lopez-Vaamonde, Gaele Glexovic, Jerome Cuvac, Elisabeth Huguet</i>	10:15-10:30
Coffee/Tea Break		10:30-11:00
S704W06	Biodiversity drives trait evolution of a community member in an indirect interaction web <i>Shunsuke Utsumi, Yoshino Ando, Heikki Roininen, Jan-ichi Takafashi, Takayuki Ohgushi</i>	11:00-11:15
S704W07	Sequential speciation amplifies biodiversity across a community of insect parasites <i>Glen R. Hood, Andrew A. Forbes, Thomas Powell, Scott P. Egan, Jeffrey L. Feder</i>	11:15-11:30
S704W08	Do plant-mediated interactions among herbivores affect parasitoid performance and genetic population structure? <i>Betty Benrey, Johnathan Hernandez-Cumplido, Jennifer Shlichta</i>	11:30-11:45
S704W09	The role of host-plant and bacteria species in the genetic differentiation of herbivorous insects <i>Raul F. Medina</i>	11:45-12:00
Lunch		12:30-14:00

## S 705

Evolutionary ecology and biosystematics of gall-inducing arthropods and their associates  
 Symposium Organizers : Man-Miao Yang(Taiwan), Makoto Tokuda(Japan)

## Room 10

August 24, Friday

Code No.	Presentation Title Authors, Presenting author	Time
S705F01	Host feeding by a gall-inducing insect improves the performance of offspring <i>Makoto Tokuda, Keiichi Matsukura, Shun Kumeshima, Minayo Matsumura</i>	09:00-09:30
S705F02	Gall-inducing ability of the maize orange leafhopper <i>Cicadulina bipunctata</i> and barley chromosomes related to the resistance and susceptibility to the gall induction <i>Shun Kumeshima, Keiichi Matsukura, Kanako Kawaura, Minayo Matsumura, Yasunori Ogihara, Makoto Tokuda</i>	09:30-09:45
S705F03	Progress on gall midges (Diptera: Cecidomyiidae) in China <i>Kelang Jiao, Wenjun Bu</i>	09:45-10:00
S705F04	Host specialisation, diversity and community structure of galling insects in a Papua New Guinean lowland rainforest <i>Philip Buttenill, Vojtech Novotny</i>	10:00-10:15
Discussion		10:15-10:30
Coffee/Tea Break		10:30-11:00

Code No.	Presentation Title Authors, Presenting author	Time
S705F05	Carotenoids, lateral gene transfer and gall midges <i>Cassidy Cohen, John Strassman, Patrick Abbot</i>	11:00-11:30
S705F06	Discovery of gall wasps (Hymenoptera: Cynipidae) inducing galls on the strictly Asian subgenus <i>Cyclobalanopsis</i> of the genus <i>Quercus</i> (Fagaceae) <i>Tatsuya Ide, Nukata Wai-Ju, Hirofumi Abe</i>	11:30-11:45
S705F07	Inferring speciation history of the <i>Andricus mukaigawae</i> complex (Hymenoptera: Cynipidae) based on nuclear DNA and mitochondrial DNA Data <i>Nakatada Wachi, Kishinoue Abe, Nobuyuki Inamura, Hidemori Kuchida</i>	11:45-12:00
S705F08	A koinobiont parasitoid manipulates its host cecidomyiid to modify gall morphology to avoid hyperparasitism <i>Tomohiro Fujii, Kazumori Matsuo, Junji Ino, Yukawa, Yoshihisa Abe, Makoto Tokuda</i>	12:00-12:15
	Discussion	12:15-12:30
	Lunch	12:30-14:00
S705F09	Phylogeny and evolution of gall morphology in eriosomatine aphids <i>Masakazu Sano, Shinichi Akimoto</i>	14:00-14:15
S705F10	Gall shape variation and host specificity in relation to species identity in a complex galling midge group <i>Daphnephila</i> (Diptera: Cecidomyiidae) on <i>Machilus</i> spp. (Lauraceae) in Taiwan <i>Man-Miao Yang, Tung-Cheng Chung, Gen Sheng Tung, Makoto Tokuda, Junichi Yukawa</i>	14:15-14:30
S705F11	Sexual isolation between two intraspecific groups of <i>Hartigiola fagigalli</i> (Diptera: Cecidomyiidae) that induce different types of leaf gall on <i>Fagus crenata</i> (Fagaceae) <i>Masako Maehara, Shunsuke Sato, Kiyoshi Tsuru, Junichi Yukawa</i>	14:30-15:00
S705F12	Olfactory cues in gall midge speciation <i>Tina Boddum, Sharon Hill, B.W. Mattsson, Goran Bergerson, Bela Molnar, Ylva Hållberg</i>	15:00-15:15
S705F13	Electrophysiological screening to investigate gall midge host plant recognition <i>Peter Bela Molnar, Tina Boddum, Goran Bergerson, Ylva Hållberg, B.W. Mattsson</i>	15:15-15:30
	Coffee/Tea Break	15:30-16:00

## S 706

## Insects in forest litter and woody debris

Symposium Organizers: John Spence(Canada), Anne Oxbrough(Canada)

## Room 16

August 24, Friday

Code No.	Presentation Title Authors, Presenting author	Time
S706F01	Ground-dwelling arthropod assemblages following variable retention harvesting: Is green tree retention effective to maintain biodiversity? <i>Jaime H. Pinzon, Stephane Buisson, John R. Spence</i>	09:00-09:30
S706F02	Can intensively managed plantation forests support a diverse arthropod fauna? <i>Anne Oxbrough, Soruberto Iqbal, Thomas C. Kelly, John O'Halloran</i>	09:30-09:45
S706F03	Tropical trees influence trophic structure but not diversity of litter arthropod communities <i>David Andres Danoso, Myriam J. Jansen, Natalie A. Clay, Michael E. Raspor</i>	09:45-10:00
S706F04	Conservation of saproxylic beetles and living tree retention patch size in boreal white spruce forest <i>Seung-H Lee, Armin Spence, David Langer</i>	10:00-10:15
S706F05	Soil collembolans of commercial forests plantations of Colombia: Response to plantation age and climatic regime <i>Adriana Ravea, Olga P. Pinzon, Armin Dutz</i>	10:15-10:30
	Coffee/Tea Break	10:30-11:00
S706F06	Opening the black box: The structure of belowground food webs <i>Stefan Scheu</i>	11:00-11:15
S706F07	Under which conditions does retention harvesting support boreal ground-dwelling forest arthropods? <i>Matti Jussä Kallio</i>	11:15-11:30



Code No.	Presentation Title Authors: Presenting author	Time
S706F08	Substrate diversity promotes species diversity in saproxylic beetles <i>Joaquim Hjältén, Fredrik Stenbacka, Roger Pettersson, Therese Johansson, Kjell Danell, John P. Bail, Heloise Gibb, Jacek Hilszczański</i>	11:30-11:45
S706F09	Survey on distribution and species diversity of oak gall wasps (Hymenoptera: Cynipidae) species in West-Azerbaijan, Iran <i>Abbas Hosseinzadeh, Zahra Hashemi Khabiz, Negar Alioghli, Nouraddin Shayesteh</i>	11:45-12:00
S706F10	Changing climate associated with homogenization of forest assemblages of boreal ground beetles (Coleoptera: Carabidae) <i>John R. Spence, Stéphane Bourassa</i>	12:00-12:30
Lunch		12:30-14:00

## Section 8

## Pesticides, GM Crops, Resistance and Toxicology

Conveners: Si Hyeock Lee (Republic of Korea), Isaac Ishaaya (Israel)

## S 801

## Advanced technologies for managing insect pests

Symposium Organizers: Isaac Ishaaya (Israel), Suba Reddy Palli (U.S.A.), Michel Cusson (Canada)

## Room 9

August 21, Tuesday

Code No.	Presentation Title Authors, Presenting author	Time
S801M01	Juvenile hormone biosynthetic enzymes as targets for insecticide discovery Michel Cusson, Stephanie J. Siro, Tatsuo Shimoda	14:00-14:30
S801M02	Plant secondary compounds from <i>Leucaena leucocephala</i> , <i>Alpinia zerumbet</i> and <i>Bidens pilosa</i> Shinkichi Tawata	14:30-15:00
S801M03	Design of molting hormone agonists Yoshiaki Nakagawa	15:00-15:30
	Coffee/Tea Break	15:30-16:00
S801M04	Ligand-gated chloride channels: Important sites for developing novel insecticides Yoshihisa Ozoe	16:00-16:30

## S 802

## Insecticide resistance: Mechanism and management

Symposium Organizers: Ian Denholm (United Kingdom), Ralf Nauen (Germany)

## Room 9

August 20, Monday

Code No.	Presentation Title Authors, Presenting author	Time
S802M01	Genetic mapping of etoxazole resistance mutations in <i>Tetranychus urticae</i> provides new insights in the mode of action of chitin synthesis inhibitors Thomas Van Leeuwen, Peter Driessens, Edward J. Chubb, Cor Jurg, Richard M. Clark	14:00-14:15
S802M02	Frequencies of the M918I, T929I and L1014F mutations in the sodium channel of the diamondback moth in China, Thailand and Japan Shoji Sanoda	14:15-14:30
S802M03	Resistance to diamide insecticides in the diamondback moth in China Yidong Wu, Xiaoping Wang, Yifan Song, Shaoen Wu	14:30-14:45
S802M04	Dynamics of insecticide resistance in the peach-potato aphid, <i>Myzus persicae</i> Ian Denholm, Diana Cox, Stephen Foster, Martin Williams	14:45-15:00
S802M05	Mechanisms of resistance to neonicotinoid insecticides in the peach-potato aphid, <i>Myzus persicae</i> Alla Mirel Puzian, Marlene Hernandez, Stephen Foster, Ian Field, Ian Denholm, Neil S. Muller, Chris Burs	15:00-15:15
S802M06	Neonicotinoid resistant <i>Myzus persicae</i> demonstrate an increased ability to locate untreated plant tissue compared to a susceptible clone Lucy Frey, Lukas Mohr, David Slater, Glen Pinwell, Simon Leather, Ralf Nauen	15:15-15:30
	Coffee/Tea Break	15:30-16:00
S802M07	Activities of the Insecticide Resistance Action Committee (IRAC), with particular emphasis on Asia Ralf Nauen	16:00-16:15
S802M08	Identification of imidacloprid resistance mechanism in the cotton aphid, <i>Aphis gossypii</i> (Hemiptera: Aphididae) Ju Il Kim, Han Goo Lee, Min Kwon, Jeon Seon Kim, Young Gyu Lee, Seung Kim, Si Hyeock Lee	16:15-16:30
S802M09	Resistance situation against neonicotinoid insecticides in the brown planthopper, <i>Nilaparvata lugens</i> Masaya Matsumura, Soichiro Akatsuka, Akio Ohtaka	16:30-16:45

Code No.	Presentation Title Authors, Presenting author	Time
S802M10	Neonicotinoid and spinosad resistance in <i>Musca domestica</i> : From bioassay to transcriptome Michael Kristensen, Mette D.K. Markussen, Dorte Højland	16:45-17:00
S802M11	Dynamics and mechanisms of insecticide resistance in European populations of the pollen beetle, <i>Meligethes aeneus</i> Christoph T. Zimmer, Rolf Nauen	17:00-17:15
S802M12	A nicotinic acetylcholine receptor point mutation associated with resistance to spinosad in western flower thrips ( <i>Frankliniella occidentalis</i> ) Neil S. Millar, Alm M. Planeyan, Stuart J. Lansdell, Taty Collins, Pablo Beltrán	17:15-17:30

## S 803

## The effects of GM crops on non-target organisms

Symposium Organizers: Jörg Romeis (Switzerland), Richard L. Hellmich (U.S.A.),  
Anthony M. Shelton (U.S.A.)

Room 18

August 21, Tuesday

Code No.	Presentation Title Authors, Presenting author	Time
S803TU01	Risk assessment of genetically-modified maize debris on stream-inhabiting arthropods William O. Lamp, Galen P. Dively, Christopher M. Swan	14:00-14:15
S803TU02	Genetically modified crops and aquatic ecosystems: Considerations for environmental risk assessment and non-target organism testing Kerl Corstens	14:15-14:30
S803TU03	Non-target effects of GM crops: A global synthesis Steven E. Naranjo, Joerg Romeis	14:30-14:45
S803TU04	Evaluation of Genuity® Bollgard III® cotton effects on non-target organisms Andrew Davies, Mary Whitehouse, Lewis Wilson, Geoff Baker	14:45-15:00
S803TU05	Bioassay of cry1 ab protein to non-target Lepidoptera, the great egg fly, <i>Hypoimnna bolina philippensis</i> Butler (Nyphalidae: Lepidoptera) Bonifacio Fallarin Cayabyab, Edwin P. Alcantara, Augusto C. Symalde, Wilma R. Custerro, Blair Siegfried, Josemar M. Belen, Ma, Chansana Muleanab, Karen Ardez	15:00-15:15
S803TU06	A comparison of canopy-dwelling non-target arthropod communities in open pollinated Bt and non-Bt eggplant in Three multi-location trial sites in Luzon Island, Philippines Randolph Candano, Desiree Hautea, Marlo Navasero, Joseph Manjot, Maria Dulce Mostoles, Randy Hautea	15:15-15:30
Coffee/Tea Break		15:30-16:00
S803TU07	Effects of GM crops on nontarget organisms: Field studies in India Mukesh Kumar Dhillon, Hari C. Sharma	16:00-16:15
S803TU08	Effects of Cry1Ac Rice on <i>Propylea japonica</i> (Coleoptera: Coccinellidae), <i>Pirata subpiraticus</i> (Araneae: Lycosidae) and <i>Pachygnatha clercki</i> (Araneae: Tetragnathidae) Sue Yean Lee, Seung Tae Kim, Jong Kwok Jung, Joen-Ho Lee	16:15-16:30
S803TU09	Assessing the impact of GE plants on natural enemies? Testing practices with <i>Coleomegilla maculata</i> Yunhe Li, Joerg Romeis, Anthony M. Shelton, Yufa Peng	16:30-16:45
S803TU10	Assessing the impact of bruchid-resistant transgenic legumes on parasitoids Joerg Romeis, Christoph Luefke, Fernando Alvarez-Avilageme	16:45-17:00
S803TU11	Developing a framework for assessing the risks associated with RNAi crops on non-target organisms Xuguo Zhou, Blair Siegfried	17:00-17:15

## S 804

## Countermeasure Strategies for Insect Resistance to Insecticides

Symposium Organizers : Tetsuo Saito(Japan), Young-Joon Ahn(Republic of Korea)

## Room 7

August 22, Wednesday

Code No.	Presentation Title Authors, Presenting author	Time
S804W01	A strategy on countermeasure against further development of pyrethroid resistance of vector mosquitoes: Minimizing the use of pyrethroids by synergistic actions of formamidines and by introducing new <i>Fumio Matsumura</i>	09:00-09:30
S804W02	Integrated measures for managing resistance for major pests in Malaysian crops <i>Sivapragasam Annamalai, Luke Wei Hung</i>	09:30-10:00
S804W03	Mechanisms of negatively correlated cross-resistance between malathion and fenvalerate in the brown plant hopper, <i>Nilaparvata lugens</i> Stål <i>Hayato Ieshima, Tetsuo Saito, Tadashi Miyata</i>	10:00-10:30
	Coffee/Tea Break	10:30-11:00
S804W04	An ace-1 expression system for monitoring insect acetylcholinesterase activity: With a special reference to carbofuran resistance in rice stem borer, <i>Chilo suppressalis</i> Walker <i>Cheng Chang, Xin Xuefeng, Shu-Mei Dai</i>	11:00-11:30
S804W05	Resistance to mating disruption, a pheromone-based pest management tool, in the smaller tea tortrix, <i>Adoxophyes honmai</i> Yasuda <i>Jun Tabata</i>	11:30-12:00
S804W06	The ultimate strategy on countermeasure for insect resistance to insecticide <i>Tetsuo Saito</i>	12:00-12:30
	Lunch	12:30-14:00

## S 805

## RNAi: Applications and considerations

Symposium Organizers : William J. Moar(U.S.A.), Anthony M. Shelton(U.S.A.)

## Room 7

August 23, Thursday

Code No.	Presentation Title Authors, Presenting author	Time
S805TH01	Global registration considerations for in planta RNA-mediated control of insect pests <i>Christina Lawrence</i>	09:00-09:15
S805TH02	RNAi products platform for invertebrates' health and targeted pest control <i>Eyal Ben-Chanan, Gal Yarden</i>	09:15-09:45
S805TH03	Developing species-specific RNAi technologies to control insect pests <i>Steve Whyard, Aditi Singh, Alison Patrusky, Andrew Jurko</i>	09:45-10:15
S805TH04	Application of RNAi toward insecticide resistance <i>Fang Zhu, Subba Reddy Patil</i>	10:15-10:30
	Coffee/Tea Break	10:30-11:00
S805TH05	Promoted transmission of silencing signals from plant to insect midgut by proteases <i>Ying-Ba Mao, Xue Xue-Yi, Xiao-Yuan Tao, Dian-Yang Chen, Xiao-Bo Chen</i>	11:00-11:30
S805TH06	Effective RNAi targets screening strategy and convenient dsRNA delivery way for Lepidoptera insect pest control <i>Xuejie Miao, Hao Zhang, Haichao Li, Ruosheng Ge, Yubing Wang</i>	11:30-12:00
S805TH07	Controlling corn rootworm with dsRNA: Efficacy, specificity and IRM considerations <i>William Moar, Pamela Bachman, Thomas Clark, Renata Botrugno, Gerald Singers, Graham Heul</i>	12:00-12:30
	Lunch	12:30-14:00



## Room 2

August 24, Friday

Code No.	Presentation Title Authors, Presenting author	Time
S806F01	Phytochemical variation: A limiting factor in pesticidal plant applications for small holder farmers in Africa Philip C. Stevenson, Stephen P. Nyiranda, John F. Komanula, Steven R. Belman	09:00-09:30
S806F02	Variation between individuals in odour responses in <i>Callosobruchus maculatus</i> : Effects of age, sex and morph Sarah Elizabeth Joan Arnold, Philip C. Stevenson, Steven R. Belman	09:30-09:45
S806F03	Optimisation of acaricidal activity of pesticidal plants <i>Lippia javanica</i> (Burm F.) Spreng and <i>Maerua decumbens</i> (Brongn) Dewolf against cattle ticks in Zimbabwe Brighton Mvumi	09:45-10:00
S806F04	Larvicidal and acetylcholinesterase inhibitory activities of <i>milletia pinnata</i> seed constituents toward insecticide-susceptible <i>Culex pipiens pallens</i> and <i>Aedes aegypti</i> and wild <i>Aedes albopictus</i> Haribalan Perumakumy, Jun-Ran Kim, Murugan Radhakara, Young-Joon Ahn	10:00-10:30
	Coffee/Tea Break	10:30-11:00
S806F05	Insecticidal potential of plants in the Eurasian region - new opportunities for the development of botanical insecticides Roman Pavela	11:00-11:30
S806F06	Recent trends in the use of botanical insecticides in North America Murray B. Isman	11:30-12:00
	Lunch	12:30-14:00

**Section 9 Conservation, Biodiversity and Climate Change**

Conveners: Ke Chung Kim(U.S.A.)

**S 901****Insect biodiversity and global IPM challenges in climate change**

Symposium Organizers: Hari C. Sharma(India)

**Room 17****August 20, Monday**

Code No.	Presentation Title Authors Presenting author	Time
S901M01	Effect of climate change on the geographical distribution and abundance of insect pests <i>Jürgen Eberhard Kroschel, Henri Tonnang, Henry Juárez, Marc Spätheder</i>	09:00-09:15
S901M02	Effects of climate change on the population dynamics of arthropods <i>Reiji Kiritani</i>	09:15-09:30
S901M03	Impact of climate change on natural enemies of insect pests <i>Vincent Faray, Fabrice Gebert, Emmanuel Deschamps, Thierry Hance</i>	09:30-09:45
S901M04	Climate change effects on insect - host plant - herbivore interactions <i>Hari C. Sharma</i>	09:45-10:00
S901M05	Towards biodiversity-based ecological IPM: Case in US apple production <i>David Biddinger, Hareendra Joshi, Timothy Leslie, Edwin Rojotte</i>	10:00-10:15
S901M06	Effect of climate change on bioefficacy of IPM technologies <i>Mukesh Kumar Dhillon, Hari C. Sharma</i>	10:15-10:30
	Coffee/Tea Break	10:30-11:00
S901M07	Impact of climate change on activity and abundance on natural enemies of insect pests <i>Linda Thomson, Ary Hoffmann</i>	11:00-11:15
S901M08	Aspects of arthropod ecology: A contribution to sustainable agribusiness in South Africa <i>Vaughn Richmond Swart, Schalk van der Merwe Louw, Maitland Swaman</i>	11:15-11:30
S901M09	Insect biodiversity: Created dung beetle communities in pastures <i>Thomas James Riddell-Smith, John Matthiessen, David Cousins, Rob Emery, Am Daddour</i>	11:30-12:00
	Lunch	12:30-14:00

**S 902****Insect biodiversity conservation**

Symposium Organizers: James S. Pryke(South Africa)

**Room 22****August 24, Friday**

Code No.	Presentation Title Authors Presenting author	Time
S902F01	Using ecological networks to conserve arthropod biodiversity in transformed landscapes <i>James Stephen Pryke</i>	14:00-14:15
S902F02	Arthropod biodiversity in Ethiopia - Religion and science partner for conservation <i>Margaret Dalzell Lowman</i>	14:15-14:30
S902F03	Linking forest biodiversity to sustainable livelihood through commercial insects in Africa <i>Suresh Kumar Raina</i>	14:30-14:45
S902F04	Butterfly biodiversity in the Australian monsoon tropics: A preliminary study <i>Michael Braby</i>	14:45-15:00
S902F05	Identifying biome switches by describing the relative role of dispersal vs. environment in structuring ant assemblages <i>Stefan Hendrik Faard, Thirandavha Caswell Murthy</i>	15:00-15:15
S902F06	Restoring ecological integrity in depauperate agro-ecosystem soils: Disentangling the underlying issues <i>Schalk van der Merwe Louw</i>	15:15-15:30
	Coffee/Tea Break	15:30-16:00

S902F07	Entomology research after the convention on biological diversity <i>Priyadarshan Dharma Rajan, Prathapan K. Divakaran</i>	16:00-16:15
S902F08	Arthropod function and redundancy: A baseline for monitoring environmental change in naturally fragmented habitats across disturbance regimes <i>Elizabeth Meyer-Milne, Servan Proches, Eileen Campbell</i>	16:15-16:30
S902F09	Biodiversity soup: Metabarcoding of arthropods for rapid biodiversity assessment and biomonitoring <i>Douglas Yu, Yinqiu Ji, Brent Emerson</i>	16:30-16:45
S902F10	Conserving pollinators: Can standard restoration mixes restore pollinator diversity? <i>Alexandra Harmon-Threatt, Stephen Hendrix</i>	16:45-17:00
S902F11	Elevational pattern in diversity of butterflies in the Western Himalayas, India <i>Manish Bhardwaj, V. P. Uniyal</i>	17:00-17:15
S902F12	Crop pollination services foster rich native bee biodiversity and abundance in western USA <i>Sujaya Rao, William P. Stephen</i>	17:15-17:30

## S 903

## Insect biodiversity in the changing world

Symposium Organizers: Ke Chung Kim (U.S.A.)

## Room 16

August 24, Friday

Code No.	Presentation Title Authors, Presenting author	Time
S903F01	Insect biodiversity: More than just bugs under climate change <i>Ke Chung Kim</i>	14:00-14:30
S903F02	Will climate change and biological invasions act synergistically? Response from the ants <i>Clea Bertelsmeier, Gloria M. Luque, Benjamin D. Hoffmann, Franck Courchamp</i>	14:30-15:00
S903F03	Elucidating changes in biodiversity with museum collections and biodiversity informatics <i>Heather M. Campbell, Andrew R. Deans</i>	15:00-15:30
	Coffee/Tea Break	15:30-16:00
S903F04	Insect biodiversity science: Toward an integrated discipline for insects <i>Ke Chung Kim, Zhiqi Liu</i>	16:00-16:30
S903F05	Diversity of the insect fauna of a mangrove forest in southern Mexico from the Middle Miocene to the present <i>Monica Marayma Solorzano Kraemer, Frauke Stebner</i>	16:30-17:00
S903F06	Taphonomical and ecological implications of fossil and recent Psychodidae (Insecta, Diptera) from Mexico <i>Frauke Stebner, Monica Marayma Solorzano Kraemer</i>	17:00-17:30

## Section 10 Integrated Pest Management

Conveners: Yoo Han Song (Republic of Korea), Babara Ekborn (Sweden)

### S 1001

#### Chemical ecology and crop protection

Symposium Organizers: Silvia Dorn (Switzerland), Maya Evenden (Canada)

#### Room 4

August 20, Monday

Code No.	Presentation Title Authors_Presenting author	Time
S1001M01	Pheromone-based management of the red clover casebearer moth, an invasive pest of clover in Canada <i>Boyd Mori, Maya Evenden</i>	09:00-09:15
S1001M02	Anti-aggregation semiochemicals for control of forest pests <i>Nancy E. Gillette</i>	09:15-09:30
S1001M03	Pheromone-based monitoring of the weevil pests in the tropics <i>Gadi V.P. Reddy</i>	09:30-09:45
S1001M04	Chemically-based monitoring of the brown marmorated stink Bug, <i>Halyomorpha halys</i> (Stal) <i>Tracy C. Leskey, Ashat Khelilian, Ajun Zhang, Don Weber</i>	09:45-10:00
S1001M05	Mating disruption of multiple species in horticulture <i>Alexandre Hlchev</i>	10:00-10:15
S1001M06	Plant volatiles attracting an invasive fruit moth: Basic findings relevant for future monitoring <i>Silvia Dorn, Jaime Pivero, Adriana Najar-Rodriguez</i>	10:15-10:30
Coffee/Tea Break		10:30-11:00
S1001M07	Use of a plant-volatile moth attractant in resistance management for transgenic cotton <i>Peter C. Gregg, Alice P. Del Socorro, Anthony J. Howes</i>	11:00-11:15
S1001M08	"Attract and reward" as a contribution to pest management <i>Safia Dine-Gordon, Stephen David Whitten, Mattias Jonsson</i>	11:15-11:30
S1001M09	Root feeders induce volatiles attracting predators <i>Anne-Marie Cortesero, Alan Kenguntzull, Céline Jassie, Sébastien Dugravot</i>	11:30-11:45
Lunch		12:30-14:00

### S 1002

#### Biology and control of spotted wing *Drosophila*, *Drosophila suzukii*

Symposium Organizers: Robert Van Steenwyk (U.S.A.), Vaughn Walton (U.S.A.)

#### Room 4

August 20, Monday

Code No.	Presentation Title Authors_Presenting author	Time
S1002M01	The distribution and host range of SWD from the Eastern Asia with development of diagnostic method using DNA barcode <i>Deuk-Soo Choi, Youngjin Kim, Jinyoung Park, Tae Gyun Kang, Youngho Cho, Jong-Chul Jeong, Sang-Ho Nam, Yoonhan Song</i>	14:00-14:30
S1002M02	<i>Drosophila suzukii</i> (Diptera: Drosophilidae) in Europe: Geographic distribution, biology and economic impact three years after detection. <i>Claudio Ariatti, Gianfranco Anfora, Gloria De Ros, Alberto Ceasari</i>	14:30-15:00
S1002M03	Spotted wing <i>drosophila</i> , a new berry and cherry pest in the Western U.S.A. <i>Peter W. Sheares, Robert A. Van Steenwyk, Denny J. Bruck, Elizabeth H. Beers, Lynell K. Taniguchi</i>	15:00-15:30
Coffee/Tea Break		15:30-16:00
S1002M04	Status of spotted wing fruit fly, <i>Drosophila suzukii</i> , in China <i>Yi Yu, Dong Chu</i>	16:00-16:15
S1002M05	<i>Drosophila suzukii</i> host selection and utilization in eastern United States agroecosystems <i>Hannah Burrack, James Price, Rufus Isaacs, Dan Harten, Cesar Rodriguez-Saona, J. Powell Smith, Greg Lamb</i>	16:15-16:30

Code No.	Presentation Title Authors_Presenting author	Time
S1002M06	Seasonal biology of spotted wing drosophila ( <i>Drosophila suzukii</i> ) in California raspberries <i>Kelly A. Hamby, Mark P. Bolda, Monise E. Sheehan, Frank G. Zalom</i>	16:30-16:45
S1002M07	Insecticide Resistance Monitoring in <i>Drosophila suzukii</i> <i>Frank G. Zalom, Kelly Hamby, Denny Bruck, Peter Shearer, Joanna Chiu</i>	16:45-17:00
S1002M08	Development of monitoring and control techniques against spotted wing <i>Drosophila</i> , <i>D. suzukii</i> <i>Peter Wittgall</i>	17:00-17:15
S1002M09	Control of spotted wing drosophila ( <i>Drosophila suzukii</i> ) in California cherries <i>Robert Van Steenwyk</i>	17:15-17:30
S1002M10	Determining biological parameters of spotted wing drosophila <i>Vaughn Martin Walton, Sam Tatchell, Jana Lee</i>	17:30-18:00

## S 1003

## Growing potatoes: A tale of emerging and old pests

Symposium Organizers : Silvia Rondon(U.S.A.), Joseph Munyaneza(U.S.A.),  
Rajagopalbabu Srinivasan(U.S.A.)

## Room 15

August 20, Monday

Code No.	Presentation Title Authors_Presenting author	Time
S1003M01	CyazypyrTM, a new tool against emerging and old potato insect pests around the globe <i>Juan Manuel Alvarez, I. Billy Arriaga, Hector E. Portillo</i>	09:00-09:30
S1003M02	Alternate host induced complexity and vector-virus interactions in potato pathosystem <i>Rajagopalbabu Srinivasan, Juan Manuel Alvarez, Felix Cervantes</i>	09:30-10:00
S1003M03	The potato tuberworm in the U.S.A. : An exotic or invasive pest? <i>Silvia I. Rondon</i>	10:00-10:30
	Coffee/Tea Break	10:30-11:00
S1003M04	Colorado Potato Beetle: Why is it such a pain in the neck? <i>Andrei Alyokhin</i>	11:00-11:30
S1003M05	Same diet but different exploitation strategies; an aphid tale <i>Philippe Guerdanengo, Laurence Brunissen, Frederic Francis, Charles Vincent, Anas Cherqui</i>	11:30-12:00
S1003M06	The potato virus Y tale: Studying the aphid vectors and preventing transmission <i>Yvan Pelletier, Xianzhou Nie</i>	12:00-12:30
	Lunch	12:30-14:00
S1003M07	The impacts of soybean aphid, a recent invasive to North America, on seed potato production <i>Jeffrey Davis, Edward Radcliffe, David Ragsdale</i>	14:00-14:30

## S 1004

## Integrated and biological control of glasshouse pests

Symposium Organizers : Eizi Yano(Japan), Irene Vänninen(Finland)

## Room 20

August 20, Monday

Code No.	Presentation Title Authors_Presenting author	Time
S1004M01	The state of commercial augmentative biological control: plenty of natural enemies, but a frustrating lack of uptake <i>Johan Coert Vanenteren</i>	14:00-14:30
S1004M02	Biological control of <i>Tuta absoluta</i> by new species of Heteropteran predators <i>Vanda Helena Pires Bueno, Joop C. Van Enteren</i>	14:30-14:45

Code No.	Presentation Title Authors: Presenting author	Time
S1004M03	Influence of natural and supplemental lighting on predation and oviposition by predatory mites on western flower thrips <i>John Les Shipp, Laura Hewitt, Rose Battenhuis, Cynthia Scott-Dupree</i>	14:45-15:00
S1004M04	The effect of photoperiod and light quality on biology of <i>Macrolophus pygmaeus</i> , a predator of whiteflies <i>Anne Ida Nissinen, Della M. Pinto, Riitta Irene Vanninen</i>	15:00-15:15
S1004M05	Impact of secondary parasitism on <i>Aphidius colemani</i> in the banker plant system on aphid control in commercial greenhouses in Japan <i>Koukichi Nagasaka, Naoyuki Takahashi, Toshihiro Okabayashi</i>	15:15-15:30
Coffee/Tea Break		15:30-16:00
S1004M06	Development of a banker plant system for <i>Aphidoletes aphidimyza</i> (Diptera: Cecidomyiidae) to control aphids on sweet pepper from summer to autumn in Japan <i>Junichiro Abe</i>	16:00-16:15
S1004M07	Competitive interactions between aphelinid parasitoids and the implications for population stability and biological control applications <i>Nian-Wen Yang, Fang-Hao Wan, Hai-Yun Xu, Lu-Lu Ji</i>	16:15-16:30
S1004M08	Bee vectoring technology for crop protection and recent studies in Korea <i>Hong-Hyun Park, Les Shipp, Jeong Jun Kim, Peter Kevan</i>	16:30-16:45
S1004M09	Evaluation of integrated and biological control of a new virus disease, cucurbit chlorotic yellows virus (CCYV), transmitted by whiteflies, using a simple mathematical model <i>Elzi Yano, Yutaka Gyoutoku</i>	16:45-17:00
S1004M10	Developing IPM for artificially lighted year-round crops: An activity theoretical approach <i>Riitta Irene Vanninen, Marco Pereira-Queral, Jenny Forsstrom, Yrjo Engstrom</i>	17:00-17:15
S1004M11	Integration of biological and chemical control in greenhouses in California: A brief history and future directions <i>Michael P. Parrella</i>	17:15-17:30

## S 1005

## Insect life tables and their applications

Symposium Organizers: Hsin Chi(Taiwan), Aurang Kavousi(Iran), Remzi Atlihan(Turkey)

## Room 19

August 20, Monday

Code No.	Presentation Title Authors: Presenting author	Time
S1005M01	Insect life tables: Theory, data analyses, and their applications <i>Hsin Chi, Yu-Bing Joyce Huang</i>	09:00-09:30
S1005M02	Population-level effects of two acaricides and their mixture on <i>Tetranychus urticae</i> (Acari: Tetranychidae) <i>Aurang Kavousi, Zahra Zarei, Hassan Ruhmani, Hadi Mosallanejad</i>	09:30-09:45
S1005M03	Performance of dusky-veined walnut aphid, <i>Panaphis juglandis</i> (Goeze) (Homoptera: Callaphididae), on different walnut cultivars <i>Evin Pojat Akkoprak, Remzi Atlihan</i>	09:45-10:00
S1005M04	Life table and predation analysis of predator-prey relationship between <i>Harmonia dimidiata</i> F. (Coleoptera: Coccinellidae) and <i>Aphis gossypii</i> Glover (Homoptera: Aphididae) <i>De-Fen Hou</i>	10:00-10:15
S1005M05	Constructing life tables for difficult to rear species: A case study of <i>Forcipomyia taiwana</i> (Shiraki) (Diptera: Ceratopogonidae) <i>Chih-Chung Lee</i>	10:15-10:30
Coffee/Tea Break		10:30-11:00

Code No.	Presentation Title Authors, Presenting author	Time
S1005M06	The temperature-dependent development and life table parameters of <i>Aphis gossypii</i> Glover (Hemiptera: Aphididae) on <i>Gossypium hirsutum</i> L. using a linear and various nonlinear models Jamaal Karaca, Mehmet Salih Oğrakçı, Senay Oğuz, Aline Bayındır	11:00-11:15
S1005M07	Life table of <i>Poderus fuscipes</i> (Coleoptera: Staphylinidae) Lee Jin Bang, Kok Boon Neoh, Zan Jaal, Chaw Yang Lee	11:15-11:30
S1005M08	Effect of host plants on life table of broad mite, <i>Polyphagotarsonemus latus</i> (Banks) (Acari: Tarsonemidae) Patchanee Vichitbandha, Angsumarn Chondrapatya	11:30-11:45
S1005M09	Population parameters of the oriental fruit fly <i>Bactrocera dorsalis</i> (Hendel) (Diptera: Tephritidae) of different sex ratio treatments Yu-bin Kevin Huang	11:45-12:00
S1005M10	Life tables of the tortoise beetle, <i>Aspidomorpha miliaris</i> (Coleoptera: Chrysomelidae) on <i>Convolvulaceae</i> Wen-Feng Hsiao, Chung-Liang Cheng	12:00-12:15
S1005M11	Use of life tables in aphid demography and in evaluation of crop resistance Huiyan Zhao, Zuyang Hu, Xiangshun Hu, Gaisheng Zhang	12:15-12:30
Lunch		12:30-14:00
S1005M12	Life tables of important medical insects Refaat Mohamed Gabre	14:00-14:15
S1005M13	The effect of certain watermelon varieties on the biology of <i>Aphis gossypii</i> Glover (Hemiptera: Aphididae) Yunus Bayram, Erol Bayhan	14:15-14:30
S1005M14	Consumption capacity of <i>Helicoverpa armigera</i> (Hübner) (Lepidoptera: Noctuidae) fed on asparagus determined by using age-stage two-sex life table Ratna Kumar Jha, Li-Cheng Tang	14:30-14:45
S1005M15	Effect of static magnetic fields (SMF) on the viability and fecundity of aphid <i>Sitobion avenae</i> (Homoptera: Aphididae) under laboratory conditions Juan He, Huiyan Zhao	14:45-15:00
S1005M16	Notes on the biology of fig-tree moth <i>Oncerogyla amanda</i> Staud. (Lepidoptera: Lymantriidae) from Erbil City, Kurdistan Region, Iraq Wand Khalis Ali	15:00-15:15

## S 1006

## Spatial dynamics and movement of insect pests

Symposium Organizers : Yong-Lak Park(U.S.A.), Patrick C. Tobin(U.S.A.)

## Room 20

August 20, Monday

Code No.	Presentation Title Authors, Presenting author	Time
S1006M01	Effects of host range, mobility, and surrounding environment on spatial dynamics and movement of insect pests Yong-Lak Park	09:00-09:30
S1006M02	Entomological-radar monitoring of insect pest population movements Vincent Alistair Drake, Hailou Wang	09:30-09:45
S1006M03	Analysis of spatial distribution of greenhouse insect pests in Korea Jung-Joon Park, Kijong Choi	09:45-10:15
S1006M04	Influence of predator-avoidance behavior on the movement patterns of whiteflies in greenhouse Dae Hyung Lee, Jan Nyrop, John Sanderson	10:15-10:30
Coffee/Tea Break		10:30-11:00

Code No.	Presentation Title Authors_Presenting author	Time
S1006M05	Site specific management of insect pests of elm trees in the University of Tabriz campus <i>Roghayeh Karimzadeh, Mir Jali Hejaz, Shohzad Iranpour</i>	11:00-11:15
S1006M06	Spatial movements and dynamics of epidemic bark beetles <i>Bjørn Økland, Olav Skarpeas, Christo Nikolov</i>	11:15-11:45
S1006M07	A simulation model to predict the potential spread of the pine wood nematode, <i>Bursaphelenchus xylophilus</i> over a range of scales <i>Christelle Robinet, Jianghua Sun, Richard Baker, Hugh Evans, Alan Roques</i>	11:45-12:00
S1006M08	Putting the brakes on the European corn borer cycle in the US: Bottom-up effect of genetically modified (GM) maize dampens cycle amplitude <i>James R. Bell, Eric C. Burkness, Alice A. Milne, David W. Onstad, Mark Abrahamson, Krista L. Hamilton, William D. Hutchison</i>	12:00-12:30
Lunch		12:30-14:00

## S 1007

## Fruit tree IPM

Symposium Organizers : Peter W. Shearer(U.S.A.), Dong-Soon Kim(Republic of Korea)

## Room 12

August 21, Tuesday

Code No.	Presentation Title Authors_Presenting author	Time
	Welcoming Remarks	09:00-09:15
S1007TU01	Lepidopteran pest pressure in stone fruit tree orchards in Korea compared to other countries <i>Chulesi Jung, Jeong Joan Ahn, Seon Ah Jeong, Lalit Prasad Sah, Hyangmi Kim, Soonwon Lee</i>	09:15-09:30
S1007TU02	Reduced pest status of lightbrown apple moth ( <i>Epiphyas postvittana</i> ) and native leafrollers (Lepidoptera: Tortricidae) on apple orchards in New Zealand <i>Peter Leonard La, Jim Walker</i>	09:30-09:45
S1007TU03	The impact of invasive brown marmorated stink bug, <i>Halyomorpha halys</i> on IPM programs in eastern US fruit orchards <i>Greg Krawczyk, Larry A. Hull, David J. Biddinger</i>	09:45-10:00
S1007TU04	Assessment of mass trapping with kairomones and pheromones against the apple clearwing moth, <i>Synanthedon myopaeformis</i> <i>Maya Evenden, V. Marion Aurelian, Gary Judit</i>	10:00-10:15
S1007TU05	Considerations in the design of mass trapping or lure and kill for pest management <i>David Maxwell Suckling, John M. Kean, Lloyd D. Stringer, AM. El-Sayed, P. Lo, V. Bell, D.J. Rogers, JTS. Walker</i>	10:15-10:30
Coffee/Tea Break		10:30-11:00
S1007TU06	Biologically based management of Asian citrus psyllid (ACP) <i>Diaphorina citri</i> to reduce spread of Huanglongbing in Florida <i>Jawwad A. Qureshi, Philip A. Stansly</i>	11:00-11:30
S1007TU07	New emerging insect pests and their management strategies in citrus orchards in Jeju, Korea <i>Dong-soon Kim, Yong Seok Jeong, Seong Hyuk Kang, Su Bin Kim, Yong Geun Kim</i>	11:30-11:45
S1007TU08	Progress in the development of an in-canopy fixed spraying system for high-density apple orchards <i>Arthur M. Agnello, Andrew J. Landers</i>	11:45-12:00
S1007TU09	IPM on top fruit in Italy: State of the art and outlook <i>Edison Pasqualini, Claudio Ioratti, Fabio Molinari</i>	12:00-12:15
S1007TU10	A 20 year evolution of pear pest management in the Western United States <i>Robert Van Steenwyk, S.C. Wheeler, J.E. Dunley</i>	12:15-12:30
Lunch		12:30-14:00



## S 1008

## Ecological control of regional rice insect pests in integrated pest management protocol

Symposium Organizers : Jichao Fang(China), Masaya Matsumura(Japan), Michael Stout(U.S.A.)

Room 12

August 21, Tuesday

Code No.	Presentation Title Authors, Presenting author	Time
S1008TU01	Ecological control of native insect pests based on insect population genetics in regional rice IPM Jichao Fang	14:00-14:15
S1008TU02	Ecological regulatory mechanism of temperature on population size in <i>Loodelphax striatellus</i> Xiangdong Liu, Aimin Zhang	14:15-14:30
S1008TU03	Biological and ecological control of the brown planthopper in South China Wenling Zhang, Guen Zhang, Dexiang Gu	14:30-14:45
S1008TU04	Diversity analysis of symbiotic bacteria in <i>Nilaparvata lugens</i> with different virulence Wang Weidong, Fu Qiang	14:45-15:00
S1008TU05	Recent advances in the management of insect pests of rice in the USA Michael Joseph Stout	15:00-15:15
S1008TU06	Use of natural enemies as a bio-indicator for assessing environmental soundness of agricultural practices in rice paddies Takatoshi Ueno	15:15-15:30
Coffee/Tea Break		15:30-16:00
S1008TU07	Resistance management for planthoppers and leafhoppers in South East Asia: Challenges and opportunities Finbarr Horgan	15:45-16:00
S1008TU08	Enhancing biological control of rice planthopper pests by ecological engineering in China Zhengxian Lu, Pingyang Zhu, Guipao Chen, KL. Hoang, GM. Guo	16:00-16:15
S1008TU09	Horizontal webs of <i>Tetragnatha</i> spiders enhance biological control of insect pests by spiders in organic paddy fields Mayara Takada, Tetsuya Kobayashi, Akira Yoshioka, Shun Tokagi, Izumi Washitani	16:15-16:30
S1008TU10	Genetics and breeding of rice conferring resistance to planthoppers and leafhoppers Jirapong Jairin, Masaya Matsumura, Hidetsi Yasui	16:30-16:45
S1008TU11	Virulence monitoring and integrated management for main rice insect pests in south China Fengkuan Huang, Suosheng Huang, Bi-Qiu Wu	16:45-17:00
S1008TU12	Silicon-mediated rice resistance to the striped stem borer: Effects of rice varieties and larval stage Yongqiang Han, Maolin Hou	17:00-17:15
S1008TU13	Possible invasion areas of the alien apple snail, <i>Pomacea canaliculata</i> , estimated from accumulated climate data by automated meteorological data acquisition system (AMeDAS) in Japan Takashi Wada, Kiyochiro Matsukura	17:15-17:30

## S 1009

## Ecological genetics of crop plants in pest management: From conventional breeding to cisgenic and transgenic crops

Symposium Organizers : Xinzhi Ni(U.S.A.), Zhongren Lei(China)

Room 20

August 21, Tuesday

Code No.	Presentation Title Authors, Presenting author	Time
S1009TU01	Looking back to move forward: Historical milestones of host plant resistance in integrated pest management Sharon Sue Quisenberry	09:00-09:15
S1009TU02	Holistic corn breeding approach to improve abiotic and biotic and stress tolerance Wenwei Xu	09:15-09:30
S1009TU03	Genetic basis of wheat resistance to the English grain aphid Huiyan Zhao, Zuping Hu, Xiangshu Hu, Thomas Theime, Udo Hemmrich, Gaozheng Zhang	09:30-09:45

Code No.	Presentation Title Authors_Presenting author	Time
S1009TU04	Specific resistance of eight wheat varieties to <i>Sitobion avenae</i> , <i>Rhopalosiphum padi</i> , and <i>Schizaphis graminum</i> (Hemiptera: Aphididae) Xiangshun Hu, Huiyao Zhao, Tong-Xian Lu	09:45-10:00
S1009TU05	Native host plant resistance to whiteflies in watermelon Alynn Simmons, Amnon Levi	10:00-10:15
S1009TU06	Comprehensive field screenings for whorl- and ear-feeding insect resistance in corn germplasm lines Xinzhai Ni	10:15-10:30
	Coffee/Tea Break	10:30-11:00
S1009TU07	Constitutive and induced resistance to insects: Potential and limitations Hari C. Sharma	11:00-11:15
S1009TU08	Repellent response of female agromyzid flies to leafminer-infested bean plants Haihong Wang, Zhongren Lei, Xuehui Ni	11:15-11:30
S1009TU09	Impact of scion and rootstock combination on pest populations on cherry and apple plants Xie Li	11:30-11:45
S1009TU10	Resistance in peach rootstocks and scions to lesser peachtree borer [ <i>Synanthedon pictipes</i> , (Lepidoptera: Sesidae)] Ted Eric Cottrell, Tom Beckman, Dan Horton	11:45-12:00
S1009TU11	Patterns of host adaptation in <i>Frankliniella occidentalis</i> among vegetable crops Zhongren Lei, Haihong Wang, Xuehui Ni	12:00-12:15
S1009TU12	Variation of cross-resistance of Cry1Ab- and Cry1Ac-selected Asian corn borer to other Cry toxins Mingxia He, Xu Yang, Ning Li, Zhenying Wang, Qunfang Yang, Kanglai He	12:15-12:30
	Lunch	12:30-14:00
S1009TU13	Area-wide monitoring of resistance to <i>Bacillus thuringiensis</i> Cry1Ab maize in <i>Diatraea saccharalis</i> Fangming Huang, Mukti N. Ghimire, B. Rogers Leonard, Chris Daves, Bonnie Levy	14:00-14:15
S1009TU14	Moving forward: Trends and future prospects of biotechnology in transgenic crops for insect control Jeng Shong Chen	14:15-14:30
	Discussion	14:30-15:30
	Coffee/Tea Break	15:30-16:00

## S 1010

## A landscape view of cultural control

Symposium Organizers : Megha N. Parajulee(U.S.A.)

## Room 19

August 21, Tuesday

Code No.	Presentation Title Authors_Presenting author	Time
S1010TU01	Evaluating the IPM fit of insecticides? Sorting myth from reality Lewis Wilson, Simone Heimgaard	09:00-09:30
S1010TU02	Fungal endophytes as insect management tools in cotton Gregory A. Sward, Maria Jussio Ek-Ramos, Diana Castillo Lopez, Wenging Zhou, Cesar Velazquez	09:30-10:00
S1010TU03	Integrating natural enemies and semiochemicals in cultural control for an effective IPM Stefano Colazza, Ezio Peri, Antonino Cusumano	10:00-10:15
S1010TU04	Dispersal of <i>Euschistus servus</i> (Heteroptera: Pentatomidae) in time and space Michael Dennis Toews, John Herbert, Tai-Huang, Ishakh Pulatkatu thodi	10:15-10:45
	Coffee/Tea Break	10:30-11:00
S1010TU05	Landscape-level cultural control as an arthropod pest management approach in Texas High Plains cotton agroecosystems Megha N. Parajulee, Ram B. Shrestha, William O. McSpadden, Stanley C. Carroll	11:00-11:30
S1010TU06	Spatio-temporal dynamics of mirid bug <i>Creontiades biseratense</i> (Distant) in Bt cotton and other host crops: An intraguild assessment in the endemic area of an emerging pest Sheshikang Shiddappa Ulakeri, Monohar Venappa Shyadasappa	11:30-11:45
S1010TU07	Area-wide pest management of sucking bugs in temperate climates benefits from a landscape perspective in managing vegetation: Lessons from field crops of the North American Great Plains Michael J. Brewer, Norman C. Elliott, Megha N. Parajulee	11:45-12:15
	Lunch	12:30-14:00

## S 1011

## The contribution of IPM to food security in the developing world

Symposium Organizers: Christian Borgemeister(Kenya), Aziz Ajlan(Saudi Arabia)

Room 19

Africa

August 21, Tuesday

Code No.	Presentation Title Authors, Presenting author	Time
S1011TU01	The contribution of IPM to food security in the developing world <i>Christian Wilhelm Borgemeister, Aziz Ajlan</i>	14:00-14:15
S1011TU02	Advance in integrated pest management of crops in China <i>Kongming Wu</i>	14:15-14:45
S1011TU03	Field evaluation of trap capture based threshold for application of entomopathogenic fungi in management of thrips on French beans <i>Alexander Mutua Mureia, Subramanian Sengar, Heleen Kuitima, Zipporah Bisiro Osiemo, Monica Waiganjo, Willem J. De Rogel</i>	14:45-15:00
S1011TU04	Development and diffusion of a new IPM approach for potato in the Andean region of Peru <i>Jürgen Kroschel</i>	15:00-15:30
Coffee/Tea Break		15:30-16:00
S1011TU05	Some factors affecting the productivity of maize in small scale farmers' fields in Ekpoma, Edo State, Nigeria <i>Nathaniel Osowe Oigiangbe, Benjamin Igbo Igbinosa, Manuele Torno, Mark Edewede, Chagile Izebhije</i>	16:00-16:15
S1011TU06	How the use of integrated pest management for vegetables contributes to food and nutritional security in Asia <i>Srinivasan Ramasamy</i>	16:15-16:30
S1011TU07	Push-Pull: A platform technology for enhancing food security and environmental sustainability in Africa <i>Zeyaur Khan, Charles Midega, Jimmy Petchar, Toby Bruce, John Pickett</i>	16:30-17:00
S1011TU08	Success and challenges in integrated management of cassava and plantain pests in sub-Saharan Africa <i>Rachid Hanina, Lavo Kumar, James Legg, Apollin Fatsa Kuato, Sergine Ngatut, Aimand Dourmisp</i>	17:00-17:30
S1011TU09	IPM in date palms and its contribution to food security in the Middle East <i>Aziz M. Ajlan</i>	17:30-18:00
S1011TU10	IPM in rice - Has it contributed to food security in Asia <i>K. L. Heong</i>	18:00-18:15

## S 1012

## Recent challenges in IPM of cereal and sugarcane moth borers

Symposium Organizers: François-Régis Goebel(France), Des Conlong(South Africa), Nader Sallam(Australia)

Room 14

August 21, Tuesday

Code No.	Presentation Title Authors, Presenting author	Time
S1012TU01	Innovative agro-ecological strategies for management of cereal stem borers <i>Johanne Van den Berg, Jessica Cockburn, Des Conlong</i>	14:00-14:15
S1012TU02	Key agronomic and ecological factors impacting moth borers populations and their natural enemies in the context of sugarcane expansion and intensification <i>François-Régis Goebel</i>	14:15-14:45
S1012TU03	Bio-intensive integrated pest management of Invasive alien plants and indigenous insect pests of Gramineaceous crops in a single programme: Fact or fantasy? <i>Desmond Edward Conlong</i>	14:45-15:15
S1012TU04	Sterile insect technique in sugarcane pest management <i>Desmond Edward Conlong, Angela Josmin Walton, Prade Mudravanhu, Linke Poogwater</i>	15:15-15:45
Coffee/Tea Break		15:30-16:00
S1012TU05	Integrated pest management of sugarcane moth borers: An Indonesian experience <i>Nader Sallam, Elisk Achadian, Peter Samson, Regis Goebel</i>	16:00-16:30
S1012TU06	Varietal resistance to stemborers in Papua New Guinea <i>Peter Samson, Kale Korowi, Lastus Kuniata</i>	16:30-16:45

Code No.	Presentation Title Authors_Presenting author	Time
S1012TU07	Significant improvement of IPM strategies against the sugarcane stem borer, <i>Chilo sacchariphagus</i> , through long-term succesful storage of <i>Trichogramma chilonis</i> (Hymenoptera:Tric) Hong Do Thi Khanh, Adrian Bonnet, Julianus Bodendürker, Etty Colombi-E. Francois-Rajis Goebel, Marlene Mitrakou, Christine Clave, Evele Roux, Elisabeth Tabone	16:45-17:00
S1012TU08	Key steps of a successful biological control against the sugarcane stemborer by inundative release of <i>Trichogramma</i> spp Elisabeth Tabone, Marlene Mitrakou, Christine Clave, Evele Roux, Francois-Rajis Goebel, Jacques Frandon, Etty Colombi-E. Hong Do Thi Khanh	17:00-17:15
S1012TU09	IPM module for the sustainable management of sugarcane stem borer, <i>Chilo infuscatellus</i> (Pyralidae, Lepidoptera) in Pakistan Shahbaz Ahmad	17:15-17:30

## S 1013

## Pattern recognition and sensing systems for IPM

Symposium Organizers : Tae-Soo Chon(Republic of Korea), Ryo Minegishi(Japan)

## Room 19

August 22, Wednesday

Code No.	Presentation Title Authors_Presenting author	Time
S1013W01	Study of adaptive odor searching behavior using a brain-machine hybrid system Ryo Minegishi, Tetsuke Takahashi, Atsushi Takashima, Tatsuke Kurabayashi, Kiyohi Kaneko	09:00-09:30
S1013W02	Chemical plume tracing performance depending on angular velocity observed by a brain-machine hybrid system Tetsuke Takahashi, Ryo Minegishi, Atsushi Takashima, Tatsuke Kurabayashi, Kiyohi Kaneko	09:30-10:00
S1013W03	Extraction of morphological characteristics of insect specimens for automatic identification by using wavelets and self-organized map Chang Woo Ji, Young-Sook Park, Hong-Jyu Byun, Hwang-Hong Kim, Tae-Soo Chon	10:00-10:15
S1013W04	Agricultural robot for pest management and in situ pest recognition Chunlei Xia, Xiang-Ming Feng, Ba-Kuan Huang, Xao-Han Wang, Tae-Soo Chon	10:15-10:30
Coffee/Tea Break		10:30-11:00
S1013W05	Recognition of the line-shaped movement of aquatic macroinvertebrates in stressful conditions Woon-Seok Cho, Ba-Mnon Kim, Chunlei Xia, Hungsoo Kim, Kyung-Hee Choi, Tae-Soo Chon	11:00-11:15
S1013W06	Analysis of movement behaviors in response to chemical stressors using self-organizing map and hidden Markov model Yan Li, Tae-Soo Chon, Juekui Gu, Jing-Ming Lee	11:15-11:30
S1013W07	Analysis of gene information of insects based on pattern recognition techniques Dang-Hwan Kim, Tuyen Van Nguyen, Hungsoo Kim, Thieu Thi Nguyen, Young-Su Seo, Kazu Watanabe, Tae-Soo Chon	11:30-11:45
S1013W08	Wavelet method applied to analysis of movement behavior of indicator species Hungsoo Kim, Juekui Gu, Zongming Ren, Tae-Soo Chon	11:45-12:15
S1013W09	Computational methods for analyzing morphology and behavior of macroinvertebrates and insects for monitoring Tae-Soo Chon	12:15-12:45
Lunch		12:30-14:00

## S 1014

## Stink bugs: their expansion, pest status, and control tactics

Symposium Organizers : Kenji Fujisaki(Japan), Un Taek Lim(Republic of Korea),  
Antonio Panizzi(Brazil)

## Room 12

August 23, Thursday

Code No.	Presentation Title Authors_Presenting author	Time
S1014TH01	Range expansion of the southern green stink bug <i>Nezara viridula</i> in Japan with advance in the climate warming <i>Kenji Fujisaki</i>	09:00-09:15
S1014TH02	Pecky rice problem in Japan <i>Hiroya Higuchi</i>	09:15-09:30
S1014TH03	Research status on stink bugs in Korea <i>Chung Gyoo Park, Dong Soo Kim</i>	09:30-09:45
S1014TH04	Recent advances on phytophagous stink bug feeding and damage in South America <i>Antonio Ricardo Panizzi</i>	09:45-10:00
S1014TH05	Current pest status of <i>Halyomorpha halys</i> in the USA <i>George C. Hamilton</i>	10:00-10:15
S1014TH06	Egg parasitoids of stink bugs: Research status and potential for biological control <i>Eric Conti, Stefano Colazza</i>	10:15-10:30
	Coffee/Tea Break	10:30-11:00
S1014TH07	Provision of host eggs to increase field parasitism of the bean bug: Theory and practice <i>Un Taek Lim</i>	11:00-11:15
S1014TH08	Detecting source habitat of the bean bug <i>Riptortus pedestris</i> and its egg parasitoid: Toward area-wide pest management using natural pest control <i>Ken Tabuchi, Hisatomo Iaki, Hideki Iwao, Nobuo Mizutani, Koukichi Nagasaka, Seichu Moriya, Rikyo Sasaki</i>	11:15-11:30
S1014TH09	Seasonal habitat use by stink bug pests and their egg parasitoids: Implications for managing these mobile pests in diversified agroecosystems <i>Yoshimi Hirose</i>	11:30-11:45
S1014TH10	Attractiveness of stink bugs to trap types and its utilization in fields <i>Seon-Do Bae, Hyun-Ju Kim, Young-Nam Yoon</i>	11:45-12:00
S1014TH11	The pentatomid hunters: Molecular tracking of predation on stink bugs (Hemiptera: Pentatomidae) in cotton and soybeans <i>James Douglas Harwood, Kacie J. Ashley, John R. Robertson</i>	12:00-12:15
	Lunch	12:30-14:00

## S 1015

## The role of present and future genetically-engineered insect-resistant crops in IPM

Symposium Organizers : Jörg Romeis(Switzerland), Anthony Shelton(U.S.A.), Yunhe Li(China)

## Room 12

August 23, Thursday

Code No.	Presentation Title Authors_Presenting author	Time
S1015TH01	Bt maize in the Americas from 1996 to 2012 <i>Richard L. Hellmich</i>	14:00-14:15
S1015TH02	The changing landscape of cotton IPM in the GM crop era <i>Steven E. Naranjo</i>	14:15-14:30
S1015TH03	Indirect, plant-mediated competition in Bt cotton - a possible mechanism underlying secondary pest outbreaks <i>Jörg Romeis, Steffen Hogenbuech, Felix L. Wäckers</i>	14:30-14:45
S1015TH04	Bt rice in China: Potential benefits, impact, and sustainability <i>Gongyin Ye, Mao Chen, Yang Chen, Junce Tian, Yufa Peng</i>	14:45-15:00

Code No.	Presentation Title Authors_Presenting author	Time
S1015TH05	<b>Bt transgenic grain legumes in pest management : Progress and problems</b> <i>Hari C. Sharma</i>	15:00-15:15
S1015TH06	<b>Bt vegetables for insect management within IPM programs: Successes, disappointments, challenges and ways to move forward</b> <i>Anthony M. Shelton</i>	15:15-15:30
<b>Coffee/Tea Break</b>		15:30-16:00
S1015TH07	<b>Field resistance of Bt eggplant expressing insecticidal Bt Cry 1Ac protein against the fruit and shoot borer, <i>Leucinodes orbonalis</i> Guenee in the Philippines</b> <i>Lourdes Dichoso Taylo, Maria Lut Josue Sison, Desiree Merancia Hautea, Mary Ann Macija Abustan, Oliver Obnias Silvestre, Maria Dulce Jowilano Mostoles, Joseph Caparpon Bonavathan, Randy Anacleto Hautea, Reynoldo Bautista Quiloy</i>	16:00-16:15
S1015TH08	<b>Insect-resistant GM crops and IPM: The chemistry should be right</b> <i>Marcel Dicke</i>	16:15-16:30
S1015TH09	<b>Insect resistance management for GE crops: Patterns of success</b> <i>Richard Tyrone Roush</i>	16:30-16:45
S1015TH10	<b>Insect resistance management in GM crops: Challenges for African farmers</b> <i>Johann Van den Berg</i>	16:45-17:00
S1015TH11	<b>Controlling corn rootworm with dsRNA: Efficacy, specificity and IRM considerations</b> <i>William Moar, Pamela Bachman, Thomas Clark, Renata Bolognesi, Gerrit Segers, Graham Head</i>	17:00-17:15

**S 1016****Population genetics in the service of pest management**

Symposium Organizers : Thomas W. Sappington(U.S.A.), Lizhi Luo(China), Xingfu Jiang(China)

**Room 18**

August 23, Thursday

Code No.	Presentation Title Authors_Presenting author	Time
S1016TH01	<b>Reconstructing insect invasion routes with genetic tools</b> <i>Thomas Guillemard, Marc Clux, Eric Lambaert</i>	09:00-09:30
S1016TH02	<b>Population genetics and disease ecology of mosquito species in Galapagos</b> <i>Arnaud Battaille, Andrew A. Cunningham, Simon J. Goodman</i>	09:30-09:45
S1016TH03	<b>Outbreeding depression and reluctant virgin oviposition in Californian populations of the bean thrips, <i>Caliothrips fasciatus</i> (Pergande) (Thysanoptera: Thripidae), reduce its invasive potential</b> <i>Paul Rugman-Jones, Mark Hoddle, Richard Stouthamer</i>	09:45-10:00
S1016TH04	<b>Invasion genetics of the western flower thrips in China: Evidence for genetic bottleneck, hybridization and bridgehead effect</b> <i>Xian Ming Yang, Jing-Tao Sun, Xiao-Feng Xue, Xiao-Yue Hong</i>	10:00-10:15
S1016TH05	<b>Putative source and social form of the red imported fire ant, <i>Solenopsis invicta</i> disclosed by molecular markers in China</b> <i>Xingfu Jiang, Jingguo Shao, Lizhi Luo, Lei Zhang</i>	10:15-10:30
<b>Coffee/Tea Break</b>		10:30-11:00
S1016TH06	<b>Distinct invasion pattern of an alien whitefly correlated with different dominant haplotypes</b> <i>Dang Chu, Xianchun Li, Youjun Zhang, Fanghao Wan</i>	11:00-11:15
S1016TH07	<b>Using haplotypes to map fall armyworm (<i>Spodoptera frugiperda</i>) migration pathways in the United States</b> <i>Rodney Nagoshi, Shelby Fleischer, Robert Meagher, John Westbrook</i>	11:15-11:30
S1016TH08	<b>Estimation of emigration from a forest insect outbreak using population genetic tools</b> <i>Anna Cassel Lundhagen, Cecilia Rönner, Andrea Battisti, Johan Wallen, Stig Larsson</i>	11:30-11:45
S1016TH09	<b>On the potential of population genetics to refine scales for locust management</b> <i>Marie-Pierre Chapuis, Kimire Berthier, Julie-Anne Pappal, Gregory Sward</i>	11:45-12:00

Code No.	Presentation Title Authors_Presenting author	Time
S1016TH10	Understanding dispersal and movement of <i>Aphis glycines</i> to improve durability of aphid resistant soybean Andrew Michel, M.A.R. Arias, Ramon Banuel, Jacob Wenger, Lucia Crambes	12:00-12:15
S1016TH11	Genome scans for adaptation to transgenic Bt maize Nicholas Miller, Bruce Hibbard, Thomas W. Sappington	12:15-12:30
	Lunch	12:30-14:00
S1016TH12	Paratransgenic symbionts that express targeted toxins in the termite gut Claudia Huesenader, Chunmay Tikhe, Jennifer Delatte-Donaldson	14:00-14:15
S1016TH13	Gene flow and neighborhood area in European corn borer (Lepidoptera: Crambidae) in the U.S., and implications for insect resistance management Thomas W. Sappington, Kyung Seok Kim, Jing Sun, Shelby Henscher	14:15-14:30
S1016TH14	Genetic differentiation and gene flow among different geographical populations of <i>Ostrinia furnacalis</i> in China based on multiple molecular markers Jing Li, Zhenying Wang, Serge Ponsard, Denis Bourguet, Konglai He	14:30-14:45
S1016TH15	Pattern of dispersal and gene flow of cotton boll weevil in North America Kyung Seok Kim, Thomas W. Sappington	14:45-15:00
S1016TH16	Regional and global population structure of the oriental fruit moth, <i>Grapholitha molesta</i> Dominique Mazzù, Heather Kirk, Marco Tarnani, Silvia Daini	15:00-15:15
S1016TH17	The Molecular Phylogeny and population genetics of the rice grasshopper, <i>Oxya</i> genus Enbo Ma, Tao Li, Min Zhang, Zhumei Ren, Yang Zhong, Jianzhen Zhang	15:15-15:30

## S 1017

## Rice hoppers: Problems, surveillance, and management strategies

Symposium Organizers : Yoo Han Song (Republic of Korea), K. L. Heong (Philippines),

Jian Cheng (China)

## Room 19

August 23, Thursday

Code No.	Presentation Title Authors_Presenting author	Time
S1017TH01	Planthoppers threatening rice in Asia again? Why? K.L. Heong	09:00-09:30
S1017TH02	Occurrence and migration of <i>Nilaparvata lugens</i> in the Vietnamese Mekong Delta Akira Otake, Toshihiro Sakamoto, Ho Van Chien, Masaya Matsumura	09:30-09:45
S1017TH03	The return migration of rice planthoppers: Gaps in the loop Baoping Zhai, Dabing Zheng, Haibo Yang, Guo Zhang, Xiao Chen	09:45-10:00
S1017TH04	How are <i>Nilaparvata lugens</i> in East Asia adapted for long-distance migration: Differences in a few migration-related characters between the planthoppers in the tropics and temperate regions? Takeshi Wada	10:00-10:15
S1017TH05	Genetic background of the migratory capability of the brown planthopper, <i>Nilaparvata lugens</i> Sumito Tojo, Sumio Moraoaka	10:15-10:30
	Coffee/Tea Break	10:30-11:00
S1017TH06	Regional surveillance of rice plantoppers in Asian rice area Yoo Han Song	11:00-11:15
S1017TH07	On-farm management of rice varieties for increased efficiency in planthopper population regulation Finbarr G. Horgan	11:15-11:30
S1017TH08	Plant penetration behavior of the rice sap-sucking Homoptera on susceptible and resistant rice varieties using DC-EPG system Bo Yoon Seo, Jin Kyo Jung, Youn-Hee Kwon, Gil-Hah Kim	11:30-11:45
S1017TH09	Rice volatile signals are important regulators of rice-brown planthopper interactions Yonggen Lou	11:45-12:00

Code No.	Presentation Title Authors_Presenting author	Time
S1017TH10	Exploring the factors underlying variation in brown planthopper-rice interactions <i>Yolande H. Chen</i>	12:00-12:15
S1017TH11	Recent situation of rice viruses transmitted by planthoppers in Southeast Asia <i>Il-Ryong Choi</i>	12:15-12:30
	Lunch	12:30-14:00
S1017TH12	Imidacloprid resistance in the brown planthopper: Different stories in lab and field <i>Zewen Liu, Zhiping Ding, Xiangkun Meng, Beina Guo, Feng Jiang</i>	14:00-14:15
S1017TH13	Species and area specific development of insecticide resistance in Asian rice planthoppers <i>Masaya Matsumura, Sachiyo Morimura, Akira Otuka</i>	14:15-14:30
S1017TH14	Mechanisms of pesticide-induced resurgence of the brown planthopper (BPH) <i>Nilaparvata lugens</i> <i>Xiangjian Xu, Cui Jin Wu</i>	14:30-14:45
S1017TH15	Ecological engineering for pest management in rice: Reconciling on-farm biodiversity and food security <i>Geoff Gurr, Zhang Xian Lu, Kong L. Heong, David J. Perovic, Jiaon Cheng, Chalot Channo, Gui Hua Chen, Ping Yang Zhu, Ha Van Chien, Zengrong Zhu</i>	14:45-15:00
S1017TH16	Flowering plants improve biological parameters of rice planthopper natural enemies <i>Zhangxian Lu, Pingyang Zhu, XL Heong, GM Gurr</i>	15:00-15:15
S1017TH17	Comparative analysis of chemosensory system and metabolic enzymes of three rice planthoppers <i>Wenwu Zhou, Xin Yuan, Ping Qian, Qing-Mei Liang, Chuan-Ji Zhang, Jiaon Cheng, Geoff M Gurr, Zeng-fang Zhu</i>	15:15-15:30
	Coffee/Tea Break	15:30-16:00
S1017TH18	The genome of <i>Nilaparvata lugens</i> <i>Chuan-Xi Zhang, Jo-An Cheng</i>	16:00-16:15
S1017TH19	Progress in genome sequencing of the brown planthopper, <i>Nilaparvata lugens</i> <i>Yoshitaka Suetsugu, Tetsuya Kobayashi, Takashi Daimon, Akiyo Joraku, Yuki Nakamura, Sengo Kuwazaki, Takumi Kayukawa, Yuichi Katayose, Hiroyuki Kanamaru, Kanako Kurita</i>	16:15-16:30
S1017TH20	Imidacloprid resistance in the brown planthopper: Genes for nAChR subunits and P450 enzymes <i>Hiroaki Noda, Yuki Nakamura, Sawako Kamai, Yoko Kozumi, Yoshitaka Suetsugu, Toshinari Kozaki, Takashi Daimon, Tetsuro Shinoda, Kimiko Yamamoto, Sachiyo Morimura</i>	16:30-16:45
S1017TH21	Sexratio distortion by a male-killing <i>Spiroplasma</i> in the small brown planthopper, <i>Loxophor striatellus</i> <i>Sachiyo Morimura, Masaya Matsumura, Hiroaki Noda</i>	16:45-17:00
S1017TH22	Genes Regulating wing dimorphism of <i>Nilaparvata lugens</i> <i>Jian Xue</i>	17:00-17:15
S1017TH23	Paired genome sequence reveals insights into intimate symbiosis in brown planthopper <i>Haiwei Fan, Jiaon Cheng, Chuan-Ji Zhang</i>	17:15-17:30

## S 1018

## Management of migratory pests

Symposium Organizers : Haikou Wang(Australia)

## Room 17

August 24, Friday

Code No.	Presentation Title Authors_Presenting author	Time
S1018F01	Fifty years of monitoring insect migration in the United Kingdom at Rothamsted <i>Jason Chapman, James Bell, Chris Shortall, Richard Harrington</i>	09:00-09:30
S1018F02	Management of Desert Locust <i>Keith Cressman</i>	09:30-10:00
S1018F03	Management of migratory <i>Helicoverpa</i> spp. moths in Australia <i>Peter Charles Gregg, Alice P. Del Socorro, Kris Le Mattee</i>	10:00-10:30
	Coffee/Tea Break	10:30-11:00



S1018F04	Monitoring and forecasting Australian plague locust metapopulation <i>Hailou Wang, Edward Deveson, Alistair Drake</i>	11:00-11:15
S1018F05	Understanding the migration of <i>Helicoverpa armigera</i> with radar and modelling the area-wide population dynamics in northern China <i>Hongqiang Feng, Kangming Wu</i>	11:15-11:30
S1018F06	Radar observation of the migration of rice leaf roller <i>Cnaphalocrocis medinalis</i> Guenee in southern China <i>Chunxian Jiang, Xue Yang, Huifu Qi, Yanhui Zhang, Dengle Cheng</i>	11:30-11:45
S1018F07	Overseas migration of the small brown planthopper, <i>Loodelphax striatellus</i> , in East Asia and its prediction <i>Akira Otuka, Yum Zhou, Gwan-Seok Lee, Masaya Matsumura, Yegui Zhu, Zewen Liu, Sachio Morimura</i>	11:45-12:00
S1018F08	The spring migration of the small brown planthopper, <i>Loodelphax striatellus</i> , in eastern China <i>Baoqing Zhai, Kangyang Hou, Yuan Fei, Yanggang Diao, Li Wang, Haiyan Zhang, Haibo Kong, Yue Zhao, Chao Han, Yanbo Xu</i>	12:00-12:15
S1018F09	Do rain initiate the take-off of the White-backed Planthopper, <i>Sogatella furcifera</i> during night? <i>Min Zhu, Lu Ji, Haiyan Zhang, Tong Hu, Ju Luo</i>	12:15-12:30
	<b>Lunch</b>	12:30-14:00
S1018F10	Subtropical High constructed meteorological conditions of the migratory field of <i>Nilaparvata lugens</i> <i>Gao Hu, Xianan Cheng, Baoqing Zhai</i>	14:00-14:15
S1018F11	Shift of outbreak area of meadow moth in China and the response to climate warming <i>Xiao Chen, BaoPing Zhai</i>	14:15-14:30
S1018F12	Geographic variation of dormancy in the small brown planthopper, <i>Loodelphax striatellus</i> (Homoptera: Delphacidae) <i>Yangyang Hou, Xiaoxi Zhang, Baoqing Zhai</i>	14:30-14:45
S1018F13	A preliminary study on the behaviour mechanism of phototactic response of rice planthoppers <i>Haibo Yang, Baoqing Zhai</i>	14:45-15:00

## S 1019

## Ecological modeling for IPM

Symposium Organizers: Young-Seuk Park(Republic of Korea), Chuleui Jung(Republic of Korea)

## Room 19

August 24, Friday

Code No.	Presentation Title Authors, Presenting author	Time
S1019F01	Modeling for insect pest management in fruit tree in Korea <i>Chuleui Jung, Jong-Geo Kim, Jeong-Joon Ahn</i>	09:00-09:15
S1019F02	Matrix models for enhancing the role of biological control in IPM <i>Nick Mills</i>	09:15-09:30
S1019F03	Modeling the spring emergence of <i>Grapholita molesta</i> in apple orchard <i>Jeong-Joon Ahn, Lalit Prasad Seth, Chuleui Jung</i>	09:30-09:45
S1019F04	Model simulation for IPM using DYMEX <i>Jung-Joon Park, Kijang Cho</i>	09:45-10:00
S1019F05	Development of the web-based information system for modeling insect population using site-specific weather data <i>Woo-Soo Kang, Jongsoo Park, Mun-H Ahn, Yong-Soon Shin, Yong-Kyu Han, Eun-Woo Park</i>	10:00-10:15
S1019F06	IPM Module for the Sustainable Management of Sugarcane Stem Borer, <i>Chilo infuscatellus</i> (Pyralidae, Lepidoptera) <i>Shahbaz Ahmed</i>	10:15-10:30
	<b>Coffee/Tea Break</b>	10:30-11:00
S1019F07	Modelling population dynamics of pest insects in paddy field <i>Yongsu Kwon, Namil Chung, Myung-Rae, Fengqing Li, Young-Seuk Park</i>	11:00-11:15
S1019F08	Modelling complex interactions among organisms in paddy field <i>Il-Hyo Jung</i>	11:15-11:30
S1019F09	Rice Farm ? An integrated virtual system to predict the effects of climate change on the rice-ecosystem <i>Seung-Ho Kang</i>	11:30-11:45
S1019F10	Catastrophe model and its application in insect ecology <i>Huiyan Zhao, Liang Zhang, Wuyatoune Mink, Zheng Li, Qingxiang Meng</i>	11:45-12:00
S1019F11	Modeling strategies for pine wood nematode control <i>Chunlei Xia, Tae-Soo Chon, Chan-Sik Jung, Young-Seuk Park</i>	12:00-12:15
	<b>Lunch</b>	12:30-14:00

## Section 11 Insect Biological Control

Conveners : Masami Takagi(Japan), Thomas Miller(U.S.A.)

## S 1101

## Microbial pesticides

Symposium Organizers : Paulo Teixeira Lacava(Brazil), João Lúcio Azevedo(Brazil)

## Room 12

August 20, Monday

Code No.	Presentation Title Authors_Presenting author	Time
S1101M01	Endophytic bacteria: Potential of biological and symbiotic control <i>Paulo Teixeira Lacava, Wellington Luiz Araújo, Thomas Albert Miller, João Lúcio Azevedo</i>	11:00-11:15
S1101M02	Endophytic microorganisms : A review on insect control and recent advances on tropical countries <i>João Lúcio De Azevedo</i>	11:15-11:30
S1101M03	Fungal endophytes and their potential for biocontrol in cotton <i>Gregory A. Sward, Marina Julissa El-Ramos, Diana Castillo Lopez, Wenqiang Zhou, Cesar Valencia</i>	11:30-11:45
S1101M04	Characterization and localization of novel proteins from <i>Antonospora locustae</i> (Protozoa: Microsporidae) <i>Zuyang Luo, He Leng, Guizhong Wang, Long Zhang</i>	11:45-12:00
S1101M05	Preference of different fruit scents to the natal fruit fly, <i>Ceratitis rosa</i> in a choice trial <i>Mikouena Margaret Lebusa</i>	12:00-12:15
S1101M06	Molecular pathogenesis of fungal entomopathogen <i>Metarhizium robertsii</i> <i>Qiang Gao, Zhibang Duan, Wei Huang, Chengshu Wang</i>	12:15-12:30
S1101M07	Microbial endophytes as source of genes related to biological control <i>Wellington Luiz Araújo, Juan Diego Rojas, Aline Aparecida Comargo Neves, Almar Jose Ferreira, Emy Tityo Mana, Gabriel Padilla</i>	12:30-12:45
Lunch		12:30-14:00

## S 1102

## IOBC Global Symposium "International Exchange and Risk Assessment of Biological Control Agents"

Symposium Organizers : Joop van Lenteren(The Netherlands)

## Room 12

August 20, Monday

Code No.	Presentation Title Authors_Presenting author	Time
S1102M01	From random release to risk assessment: Developments during the last twenty years <i>Franz Bigler, Antoon J. Loomans, Joop C. Van Lenteren</i>	14:00-14:30
S1102M02	Selection of non-target species and host specificity testing of natural enemies: Cabbage seedpod weevil ( <i>Ceutorhynchus obstrictus</i> ) parasitoids as a case study <i>Marc Kenis, Tim Haye, Ulrich Kuhlmann</i>	14:30-14:45
S1102M03	Measuring and predicting indirect non-target effects of new natural enemies <i>Russell Messing</i>	14:45-15:00
S1102M04	Host range testing for a new biocontrol agent for <i>Uroba lugens</i> (Lep.: Noctuidae) in New Zealand <i>Uta Brandt, Toni May Withers, Barbara Barratt</i>	15:00-15:15
S1102M05	Regulations for release of biological control agents in Brazil: The case of <i>Cotesia flavipes</i> <i>Vanda H.P. Bueno, Jose Roberto Pastali Porto, Danilo S. Padua</i>	15:15-15:30
Coffee/Tea Break		15:30-16:00
S1102M06	Environmental risk assessment of biological control agents in Canada: The cabbage seedpod weevil, <i>Ceutorhynchus obstrictus</i> , case study <i>Peter G. Mason, Tim Haye, Dave R. Gillespie, Jacob H. Mall, Gary A.P. Gibson, Ulrich Kuhlmann, Pat Bouchard</i>	16:00-16:15
S1102M07	The Mediterranean basin as source of invertebrate biological control agents for northern Europe: Safe "exotics"? <i>Josep Anton Jacas, Alberto Urbaneja</i>	16:15-16:30
S1102M08	Current regulations for import and release in Europe: How it is and how it should be <i>Johan Coert Vanlenteren, Antoon J.M. Loomans, Jeffrey S. Bale, Franz Bigler</i>	16:30-16:45

# S 1103

Present status and future prospects of biological control in Asia  
Symposium Organizers : Masami Takagi(Japan), Man Young Choi(Republic of Korea)

Room 22

August 20, Monday

Code No.	Presentation Title Authors, Presenting author	Time
S1103M01	History and present status of insect biological control in Japan <i>Masami Takagi</i>	14:00-14:15
S1103M02	Research on the biological control of insect pests in Korea <i>Man-Young Choi</i>	14:15-14:30
S1103M03	Present status and future prospects of biological control in Thailand <i>Wiwat Suasand</i>	14:30-14:45
S1103M04	Review of classical biological control in Japan: A case study of chestnut gall wasp <i>Kaori Yera, Seichi Moriya</i>	14:45-15:00
S1103M05	Biological control of the camellia spiny whitefly, <i>Aleurocanthus camelliae</i> , in Japanese tea fields <i>Atsushi Kasai, Koji Yamashita, Yutaka Toshiyasu</i>	15:00-15:15
S1103M06	Where is the real IPM in Asian biological control? Importance of registration and patent in IPM <i>Tetsuo Wada</i>	15:15-15:45
	Coffee/Tea Break	15:30-16:00
S1103M07	Present status and future prospects of natural enemy industry in Korea <i>Sung-Seung Yang</i>	16:00-16:15
S1103M08	Commercial production of green lacewings, <i>Mallada basalis</i> (Walker) (Neuroptera: Chrysopidae) and its petty patent <i>Sapon Uraichuen, Rattigan Submek, Anuchit Chinojaritayawong, Wiwat Suaso-And</i>	16:15-16:30
S1103M09	Fitness of the egg parasitoid <i>Trichogramma brassicae</i> is affected by size and shape of their host eggs <i>Tong-Xian Liu, Yang-Mei Zhang</i>	16:30-16:45
S1103M10	Optimizing <i>Cotesia flavipes</i> (Cameron) release rates, and maximizing sugarcane yields for sugarcane borer complex in Thailand <i>Tawee Mameerat, Wiwat Suasand, Orapan Kemas, Athaya Koenpadi</i>	16:45-17:00
S1103M11	Utilization of natural enemies for sustainable control of the outbreaks of cassava mealybugs complex in Thailand <i>Sirwan Tunkumthang, Sapon Uraichuen, Charida Sattayawong, Rattigan Submek, Wiwat Suasand</i>	17:00-17:15
S1103M12	Conservation biological control of pest aphids by vegetation diversification: A successful example in potato fields of Japan <i>Kengo Nakahira</i>	17:15-17:30

# S 1104

Biological control of emerging pests on transgenic crops  
Symposium Organizers : Robert Mensah(Australia), Lewis Wilson(Australia)

Room 22

August 21, Tuesday

Code No.	Presentation Title Authors, Presenting author	Time
S1104TU01	Microbial control of cotton pests: Use of a naturally occurring entomopathogenic fungus ( <i>Aspergillus</i> sp.) for managing <i>Creontiades dilutus</i> and beneficial insects on transgenic cotton crops in Australia <i>Robert Kofi Mensah, Leah Austin</i>	14:00 - 14:30
S1104TU02	Relative abundance of natural enemies of crop pests on Bt-transgenic and non-transgenic cottons in India <i>Mukesh Kumar Dhillon, Hari C. Sharma</i>	14:30-15:00
S1104TU03	Influence of transgenic Bt cotton on predaceous arthropod assemblage and their impact on non-target pest suppression in Texas <i>Ram B. Shrestha, Megha N. Parajulee</i>	15:00-15:30
	Coffee/Tea Break	15:30-16:00

Code No.	Presentation Title Authors_Presenting author	Time
S1104TU04	Honeybee foraging and pollination efficacy in Australian <i>Bt</i> cotton <i>Marwan Keshaf, Robert Spooner-Hart, Robert Mensah</i>	16:00-16:30
S1104TU05	Biological control of a cotton pest: <i>Bemisia tabaci</i> in Arizona transgenic cotton as a case study <i>Steven E. Naranjo, Peter Ellworth</i>	16:30-17:00
S1104TU06	Ecology of <i>Trichogramma</i> egg parasitoids in Australian transgenic cotton landscapes and their utilization for biological control <i>Andrew Davies, Christopher Carr, Brad Scholz, Myron Zalucki</i>	17:00-17:15
S1104TU07	Emerging pests and silver leaf whitefly: a challenge for Australian cotton systems <i>Lewis Wilson, Simone Helmsdon</i>	17:15-17:30

## S 1105

The Status entomopathogenic nematodes in the BioControl: Ushering in the new era  
Symposium Organizers : Ho Yul Choo(Republic of Korea)

### Room 9

August 22, Wednesday

Code No.	Presentation Title Authors_Presenting author	Time
S1105W01	Potential markets for stable industrialization of EPN business in Korea <i>Ho Yul Choo, Hyeon Hwan Kim, Dong Woon Lee, Young Moo Choo</i>	09:00-09:30
S1105W02	The status of entomopathogenic nematodes in biocontrol: Ushering in new era <i>Roman Khedo Georgis</i>	09:30-10:00
S1105W03	Wood borer control using entomopathogenic nematodes <i>Hiroshi Tanabe</i>	10:00-10:30
	Coffee/Tea Break	10:30-11:00
S1105W04	Competitiveness assessment through current market and R&D trend of entomopathogenic nematode <i>Kyung Bon Koo, Ho Yul Choo, Hyung Chul Lee, Young Jin Lee, Young Sang Park</i>	11:00-11:30
S1105W05	Production technology and field application of entomopathogenic nematodes in China <i>Richou Han, Xuehong Qiu</i>	11:30-12:00
S1105W06	Entomopathogenic nematology in North America <i>David Shapiro-Lan</i>	12:00-12:30
	Lunch	12:30-14:00

## S 1106

Insect pathology  
Symposium Organizers : Yeon-Ho Je(Republic of Korea), Hyun-Woo Park(U.S.A.)

### Room 22

August 22, Wednesday

Code No.	Presentation Title Authors_Presenting author	Time
S1106W01	<i>Bt</i> Crops: Triumph of a green technology based on <i>Bacillus thuringiensis</i> <i>Brian A. Federici</i>	09:00-09:30
S1106W02	Replication and transmission of the sexually transmitted insect virus HzNV-2 <i>John P. Burand, Woogin Kim</i>	09:30-09:45
S1106W03	The status and trends of <i>Bt</i> pesticides research in China <i>Jie Zhang, Changlong Shu, Fuping Song</i>	09:45-10:00
S1106W04	Possibility of <i>Lecanicillium</i> spp. for multiple pest control <i>Jeong Jun Kim, Mark Goettel, Dave Gillespie</i>	10:00-10:15
S1106W05	Influence of synthetic media on mycelial growth and sporulation of the entomopathogenic <i>Aschersonia</i> <i>placenta</i> Berkeley & Broom <i>Dokguaymal Hamrahud, Sapan Uralchuen, Tewee Monerut, Wweat Suksaand, Anuchit Chingjanyawong</i>	10:15-10:30

Coffee/Tea Break		10:30-11:00
Code No.	Presentation Title Authors, Presenting author	Time
S1106W06	Current status of microbial control using insect viruses in Japan <i>Madoka Nakai</i>	11:00-11:15
S1106W07	The negative control of crystal protein gene expression in <i>Bacillus thuringiensis</i> YBT-1518 <i>Xiaona Luo, Donghai Peng, Susuo Guo, Liang Ruan, Ming Sun</i>	11:15-11:30
S1106W08	AcMNPV infection suppresses the expression of host immune and juvenile hormone-regulated genes in <i>Spodoptera exigua</i> larvae <i>Jae Young Choi, Yeon Ho Je</i>	11:30-11:45
S1106W09	Events of mycosis hotbeds in Colorado beetle populations in the South Urals from 2008 to 2011 <i>Elena Surina, Konstantin Kirov, Galina Benkovskaya</i>	11:45-12:00
S1106W10	Recent studies on the thermotolerance of entomopathogenic fungi <i>Jae Su Kim, Yeon Ho Je, Bruce L. Parker</i>	12:00-12:15
S1106W11	Identification of three new Cry proteins synthesized by <i>Bacillus thuringiensis</i> subsp. <i>Jegathesan</i> <i>Yatsumi Sun, Lishu Xie, Qianqian Zhao, Brian A. Federick, Hyun Woo Park</i>	12:15-12:30
Lunch		12:30-14:00

## S 1107

## Can we better select and manipulate biological control agents when we know their genomics?

Symposium Organizers : Beukeboom Leo(The Netherlands), Jack Werren(U.S.A.)

## Room 22

August 23, Thursday

Code No.	Presentation Title Authors, Presenting author	Time
S1107TH01	<i>Nasonia</i> genomics and the genetic improvement of parasitoids for biological pest control <i>John H. Werren</i>	09:00-09:15
S1107TH02	Genetics of hymenopteran sex determination <i>Eveline C. Verhulst, Louis Van de Zande, Leo W. Beukeboom</i>	09:15-09:30
S1107TH03	Evolution and genomic architecture of host specificity in aphelinid parasitoids of aphids <i>Keith R. Hopper</i>	09:30-09:45
S1107TH04	Global analysis of the transcriptome of teratocytes reveals its function in development of <i>Cotesia vestalis</i> larvae <i>Xuesin Chen, Min Shu, Fei Gao, Pan Jing</i>	09:45-10:00
S1107TH05	Combining symbiont-manipulated phenotypes with genomics to unravel genetic bases of parasitoid life history traits <i>Fabrice Vavre, Julien Vrain</i>	10:00-10:15
S1107TH06	The genetics and genomics of reproductive decisions in parasitoid wasps <i>David Shuker</i>	10:15-10:30
Coffee/Tea Break		10:30-11:00
S1107TH07	<i>Athalia rosae</i> : An emerging genetic model system for sawflies <i>Masatsugu Hatakeyama</i>	11:00-11:15
S1107TH08	Genetics and genomics of fig wasp <i>Jin-Mue Xiao, Da-Wei Huang</i>	11:15-11:30
Lunch		12:30-14:00

## S 1108

## Biodiversity and biological control

Symposium Organizers : Stephen Wratten(New Zealand)

## Room 22

August 24, Friday

Code No.	Presentation Title Authors, Presenting author	Time
S1108F01	Wratten. Introduction. Get rich or get even? Linking biodiversity and natural pest control <i>William Emerson Snyder, David W. Crowder</i>	14:00-14:15
S1108F02	Flower power? Effects of apple orchard groundcover management on green apple aphids ( <i>Aphis</i> spp.) their predators and on the canopy insect community <i>Viktor Marko, Gabor Jensen, Elad Kondonosy, Levente Abraham, Klara Balazs</i>	14:15-14:30
S1108F03	The biology of <i>Halepyris hawaiiensis</i> (Hymenoptera: Bethyilidae) parasitoid on <i>Ephestia cautella</i> (Lepidoptera: Pyralidae) under laboratory condition <i>Elahe Sadeghi, Vahid Shah Baniameer, Aref Marouf</i>	14:30-14:45
S1108F04	Seasonal patterns in the biodiversity of natural enemies in California walnut orchards <i>Nick Mills</i>	14:45-15:00
S1108F05	Disentangling the spider's web <i>James Douglas Harwood</i>	15:00-15:15
S1108F06	Biological control in Kentucky winter wheat: Using molecular tools to assess sustainable management techniques <i>Katelyn Ann Kowles, Douglas Johnson, James Harwood</i>	15:15-15:30
Coffee/Tea Break		15:30-16:00
S1108F07	Improved fitness of the parasitoid <i>Aphytis melinus</i> receiving sugar subsidies in the field <i>Alejandro Tena, Apostolos Pekas, Felix Wockers, Alberto Urbaneja</i>	16:00-16:15
S1108F08	Potential predators that may contribute to pests control in future irrigated areas around the newly constructed Hamdab Dam in Northern Sudan <i>Abdalla Abdelrahman Satti, Nizar Abdalla Bial</i>	16:15-16:30
S1108F09	Biodiversity and biocontrol: Putting it all together in Asian rice <i>Geoff M. Gurr, Zhongwan Lu, Kong L. Heong, David J. Perovic, Pingyang Zhu</i>	16:30-16:45
S1108F10	Niche engineering reveals complementary resource use among predators <i>David Crowder, Jake Gable, Tobin Northfield, Shawn Steffan, William Snyder</i>	16:45-17:00
S1108F11	Agricultural intensification drives landscape effects on host-parasitoid interactions in agroecosystems <i>Mattias Jansson, Hannah L. Buckley, Bradley S. Case, Stephen Wratten, Roddy J. Hall, Raphael K. Cidham</i>	17:00-17:15
S1108F12	Agricultural policy-induced landscape changes: Effects on carabid abundance and their biocontrol potential <i>Pavel Kindlmann, Olga Amezcua</i>	17:15-17:30

## Section 12 Urban, Stored Product and Post Harvest Entomology

Conveners: Yasuyuki Arakane (Republic of Korea), Nan-Yao Su (U.S.A.)

### S 1201

Current control practices, area-wide management projects and foraging behaviors of subterranean termites

Symposium Organizers: Nan-Yao Su (U.S.A.)

Room 21

August 20, Monday

Code No.	Presentation Title Authors, Presenting author	Time
	<b>Welcoming Remarks</b> <i>Nan-Yao Su</i>	09:00-09:15
S1201M01	<b>Economic impact of termite pests and current control practices</b> <i>Michael K. Rust</i>	09:15-09:30
S1201M02	<b>Termite pest species and their control options in Japan</b> <i>Tsuyoshi Yoshimura, Kunio Tsunoda</i>	09:30-09:45
S1201M03	<b>Termite pests and their management in Southeast Asia</b> <i>Chow-Yang Lee</i>	09:45-10:00
S1201M04	<b>Termite control practices and recent IPM project in mainland of China</b> <i>Sujin Tan</i>	10:00-10:15
S1201M05	<b>Termite pests and their control in Taiwan</b> <i>Hou-Feng Li</i>	10:15-10:30
	<b>Coffee/Tea Break</b>	10:30-11:00
S1201M06	<b>Non-repellent termiticides: Development, key features, efficacy and control</b> <i>Raj Saran</i>	11:00-11:15
S1201M07	<b>Development of baiting as a method to control subterranean termites</b> <i>Michelle Smith, Leng Choy Lee</i>	11:15-11:30
S1201M08	<b>IPM area-wide projects and population dynamics of subterranean termites</b> <i>Nan-Yao Su</i>	11:30-11:45
S1201M09	<b>A simulation study on the territorial competition of subterranean termites</b> <i>Wanju Jeon, Sang-Hee Lee</i>	11:45-12:00
S1201M10	<b>Community-based termite baiting projects in California</b> <i>Vernard Richard Lewis</i>	12:00-12:15
S1201M11	<b>Community-based subterranean termite projects in New Orleans, Louisiana</b> <i>Claudia Riegel, Edgar Bordet</i>	12:15-12:30
	<b>Lunch</b>	12:30-14:00
S1201M12	<b>From research to end user: Community-based termite management in Chile</b> <i>James Lawrence Smith</i>	14:00-14:15
S1201M13	<b>DNA genotyping for assessment of treatment success in area-wide termite control</b> <i>Claudia Hunsender, Dawn M. Simms</i>	14:15-14:30
S1201M14	<b>The mechanics of tunnel excavation in subterranean termites, a preadaptation to fungal gardening</b> <i>Paul Michael Bardonias, Nan-Yao Su</i>	14:30-14:45
S1201M15	<b>Termite movement efficiency in their tunnel galleries</b> <i>Seungwoo Sim, Sang-Hee Lee</i>	14:45-15:00

## S 1202

## Stored-product entomology

Symposium Organizers: James Throne(U.S.A.), Jinjun Wang(China)

## Room 21

August 21, Tuesday

Code No.	Presentation Title Authors_Presenting author	Time
S1202TU01	Pest of stores and stored products-an archaentomological perspective <i>Eva Panagiotakopulu</i>	09:00-09:30
S1202TU02	Evolution of grain pests <i>Hiroki Obata</i>	09:30-09:45
S1202TU03	Invasive and synanthropic - updated aspects on the natural and cultural history of the webbing clothes moth <i>Tineola bisselliella</i> (Lepidoptera: Tineidae) <i>Rudy Plarre</i>	09:45-10:00
S1202TU04	The practicality of using molecular techniques for identification of stored-product insect pests <i>Zhihong Li, Bingyi Cui, Qianqian Yang</i>	10:00-10:15
S1202TU05	Use of molecular methods for species diagnostics and to identify dispersal patterns of stored-product insects <i>Katarina Mikac</i>	10:15-10:30
	<b>Coffee/Tea Break</b>	10:30-11:00
S1202TU06	Recent advances of stored-product psocid research in China <i>Dan-Dan Wei, Wei Dow, Jin-Jun Wang</i>	11:00-11:15
S1202TU07	Recent advances in stored-product psocid research in North America <i>James Throne</i>	11:15-11:30
S1202TU08	Recent advances in development of attractants for stored-product insects <i>Thomas Wesley Phillips</i>	11:30-11:45
S1202TU09	Mating disruption for control of stored product insect pests <i>Christos Athanassiou</i>	11:45-12:00
S1202TU10	Synthetic pheromone-based mating disruption for cigarette beetles: Present and future perspectives <i>Rizana Mohamed Mahroof</i>	12:00-12:15
S1202TU11	Influence of interspecific competition between stored products pests on biological control with parasitoids <i>Jongyeon Ji, Youngwoo Nam, Mun U Byoo</i>	12:15-12:30
	<b>Lunch</b>	12:30-14:00
S1202TU12	Practicality of using cold treatments for control of stored-product insect pests <i>Panagiotis A. Illopoulos</i>	14:00-14:15
S1202TU13	Occurrence and level of phosphine resistance in stored-product insects in Oklahoma U.S.A. <i>George Patrick Opit, Thomas Wesley Phillips, Michael J. Atkins, Mohrui M. Hasan</i>	14:15-14:30
S1202TU14	Practical implications of insecticide resistance in stored-product insects <i>Raul Narciso Carvalho Guedes</i>	14:30-14:45
S1202TU15	Structural fumigation efficacy in rice mills <i>James F. Campbell, Karrie A. Buckman, Rhodiragu Subramanyam</i>	14:45-15:00
S1202TU16	Recent advances in fumigation for control of insect pests in stored grain <i>YongLin Ren</i>	15:00-15:15
	<b>Coffee/Tea Break</b>	15:30-16:00
S1202TU17	Recent advances in fumigation for control of insect pests in dried fruits and nuts <i>Spencer Walse</i>	16:00-16:15
S1202TU18	Current status of non-chemical methods for control of insect pests in dried fruits and nuts <i>Judy Ann Johnson</i>	16:15-16:30
S1202TU19	The importance of being postharvest <i>Lisa Neven, Wee Yee</i>	16:30-16:45
S1202TU20	Heat as a postharvest disinfestation treatment for floricultural crops <i>Arnold Hajime Hara</i>	16:45-17:00
S1202TU21	Oxygenated phosphine fumigation for postharvest pest control <i>Yong-Biao Liu</i>	17:00-17:15



## S 1203

Pest ants of urban environments  
Symposium Organizers: M. Rust(U.S.A.)

## Room 21

August 23, Thursday

Code No.	Presentation Title Authors_Presenting author	Time
S1203TH01	Pest ants of urban importance <i>Michael K. Rust</i>	09:00-09:30
S1203TH02	Argentine ants - understanding their behavior for effective management <i>Dong-Hwan Choe</i>	09:30-10:00
S1203TH03	Urban pest ants of South East Asia and their management <i>Chow-Yang Lee</i>	10:00-10:30
	Coffee/Tea Break	10:30-11:00
S1203TH04	History of invasive ant management with recommendations for improvement <i>Benjamin Hoffmann</i>	11:00-11:30
S1203TH05	Native invasive ants: A novel evolutionary trend in the age of global change <i>Grzegorz Buczkowski</i>	11:30-12:00
S1203TH06	The perspective of red imported fire ant control in Taiwan: past, present, and future <i>Rong Nan Huang, Chin Cheng Yang, Chang Jen Shih, Wen Jer Wu</i>	12:00-12:15
S1203TH07	Advancements in baiting for management of pest ants : <i>Camponotus</i> spp, <i>Liometopum</i> spp and <i>Tapinoma sessile</i> <i>Laurel Dianne Hansen</i>	12:15-12:30
	Lunch	12:30-14:00

## S 1204

Novel approaches for urban pest management  
Symposium Organizers: Dong-Hwan Choe(U.S.A.)

## Room 21

August 23, Thursday

Code No.	Presentation Title Authors_Presenting author	Time
	Opening & Welcoming Remarks <i>Dong-Hwan Choe</i>	14:00-14:15
S1204TH01	Recent development in bait and trap technologies for yellow jacket control <i>Dangsheng Liang</i>	14:15-14:30
S1204TH02	Preliminary studies on the development of a liquid bait for bed bugs <i>Alvaro Romero</i>	14:30-14:45
S1204TH03	Exploiting host molecules to augment the virulence of mycoinsecticides <i>Yanhua Fan, Dov Barovsky, Chloe Hawkins, Roberto M. Perez, Almudena Ortiz-Urquiza, Engin Kilic, George Casella, Nemat Q. Keyhani</i>	14:45-15:00
S1204TH04	Disruption of ant trail-following behavior with a high dose of synthetic trail pheromone <i>Eiriki Sunamura, Shun Suzuki, Ryo Nishisue, Yukio Ishikawa, Momoru Terayama, Sadashiro Tatsuki, Hiroen Sakamoto, Takahiko Fukumoto, Yosaburo Utsuno, Hideaki Mori</i>	15:00-15:15
S1204TH05	Teaching sustainable techniques for German cockroach control in low-income, multi-unit housing <i>Dini Miller, Tim McCoy</i>	15:15-15:30
	Coffee/Tea Break	15:30-16:00
S1204TH06	Trojan Horses for target specific urban pest management <i>Claudia Husseneder, Arnt Setlu, Lane D. Fox</i>	16:00-16:15
S1204TH07	Advances in drywood termite detection, a comparative review <i>Vernard Richard Lewis</i>	16:15-16:30

**S 1205****Cockroach management - Challenges and new innovations**  
Symposium Organizers : Chow-Yang Lee(Malaysia), Changlu Wang(U.S.A.)**Room 21****August 24, Friday**

Code No.	Presentation Title Authors, Presenting author	Time
S1205F01	German cockroach (Dictyoptera: Blattellidae) IPM: A cost / benefit analysis <i>Dini Miller, Frank Meek</i>	09:00-09:30
S1205F02	Effectiveness of baiting and IPM for managing German cockroaches in apartment buildings <i>Changlu Wang</i>	09:30-09:45
S1205F03	Insecticide resistance and its underlying mechanisms in the German cockroach <i>Chow-Yang Lee</i>	09:45-10:00
S1205F04	History and development of cockroach bait technology and future innovations <i>Mark A. Coffelt</i>	10:00-10:15
S1205F05	Bait aversion in the German cockroach <i>Nongang Nick Bao</i>	10:15-10:30
S1205F06	Green pest management approaches against cockroaches <i>Arthur G. Appel, Steven R. Sims, Maria J. Eva</i>	10:30-10:45
Coffee/Tea Break		10:30-11:00

**S 1206****Bed bug resurgence and management – a global perspective**  
Symposium Organizers : C. Wang(U.S.A.), Chow-Yang Lee(Malaysia)**Room 21****August 24, Friday**

Code No.	Presentation Title Authors, Presenting author	Time
S1206F01	Survey of bed bug infestation in Southeast Asia and research updates <i>Chow-Yang Lee</i>	14:00-14:30
S1206F02	Bed bug infestation and management in Shenzhen, Guangdong province, China <i>Xiaojun Wen, Changlu Wang, Xingwen Li, Zengyu Huang, Tao Ma</i>	14:30-14:45
S1206F03	Bed bug management practices in the U.S.A. <i>Ronald Deane Harrison</i>	14:45-15:00
S1206F04	Evaluation of sustainable methods for bed bug control in low-income facilities <i>Dini Miller, Molly Stedfast</i>	15:00-15:15
S1206F05	Chemical ecology of bed bugs: Practical applications <i>Changlu Wang, Narinderpal Singh, Richard Cooper</i>	15:15-15:30
Coffee/Tea Break		15:30-16:00
S1206F06	Refining non-chemical control tactics against the bed bug, <i>Cimex lectularius</i> <i>Stephen A. Kells, Joelle F. Olson, Michael J. Goblirsch</i>	16:00-16:15
S1206F07	Importance of low level detection and the role of monitoring in bed bug management <i>Richard Cooper, Changlu Wang, Narinderpal Singh</i>	16:15-16:30
S1206F08	Recent progress in bed bug research in the U.S.A. <i>Alvaro Romero</i>	16:30-16:45
S1206F09	Beating the bugs: The Australian approach to combating the bed bug resurgence <i>Stephen Lindsay Doggett</i>	16:45-17:00

## Section 13

## Medical &amp; Veterinary Entomology

Conveners: Kyoko Sawabe(Japan), Willem Takken(Netherlands)

## S 1301

## Molecular basis of vector-pathogen interactions

Symposium Organizers: Yeon Soo Han(Republic of Korea), Michael Riehle(U.S.A.)

## Room 13

August 20, Monday

Code No.	Presentation Title Authors_Presenting author	Time
S1301M01	Functional characterization of intracellular apolpo-III in response to <i>Plasmodium</i> invasion in mosquito <i>Lalita Gupta, Ju Young Noh, Yong Hun Jo, Seung-Han Oh, Sanjeev Kumar, Mi Yung Noh, Yong Seuk Lee, Song-Jae Chit, Soek-Jae Seo, Hsiao Kim, Yeon-So Han, Carolina Borikau-Mury</i>	09:00-09:15
S1301M02	The mosquito STAT pathway and its role in <i>Plasmodium</i> development <i>Lalita Gupta, Kuldeep Gupta, Mihlesh Rajla, Ravi Dhawan, Sanjeev Kumar</i>	09:15-09:30
S1301M03	Modulation of mosquito immunity during <i>Plasmodium</i> development <i>Sanjeev Kumar, Lalita Gupta, Mihlesh Rajla, Kuldeep Gupta, Nirveen Kumar Singh</i>	09:30-10:00
S1301M04	A selective barrier in whitefly associated with vector-specific transmission of Tomato yellow leaf curl China virus <i>Jing Wei</i>	10:00-10:15
S1301M05	Increased insulin signaling in the midgut of <i>Anopheles stephensi</i> blocks development of the malaria parasite, <i>Plasmodium falciparum</i> <i>Michael A. Riehle, Vanessa Corby-Harris, Anna Dreder, Janya Antonova-Koch, Nuzzy Polipour, Shirley Luckhart</i>	10:15-10:30
S1301M06	Community engagement practices and genetically-modified mosquitoes <i>Anthony A. James</i>	10:30-10:45
	Coffee/Tea Break	10:30-11:00

## S 1302

## Forensic entomology

Symposium Organizers: Kabkaew L. Sukontason(Thailand), Martin H. Villet(South Africa)

## Room 13

August 20, Monday

Code No.	Presentation Title Authors_Presenting author	Time
	Welcoming Remarks <i>Kabkaew L. Sukontason</i>	11:00-11:05
S1302M01	Integrating ecological and anthropogenic mechanisms into a framework for advancing forensic entomology research <i>Sherah Lynnette VanDerhoven</i>	11:05-11:30
S1302M02	Estimating postmortem intervals from development of <i>Thanatophilus</i> (Silphidae) beetles <i>Martin Villet, Jayd Ridgeway, John Midgley</i>	11:30-11:55
S1302M03	Population genetics in forensic entomology <i>Christine J. Picard</i>	11:55-12:20
	Lunch	12:30-14:00
S1302M04	Standards for high quality research on larval morphology of necrophagous flies <i>Krzysztof Szpilo</i>	14:00-14:25
S1302M05	Volatile compounds at initial decomposition as attractants for the blow fly, <i>Chrysomya megacephala</i> (Fabricius) <i>Kittikun Moophayak, Kom Sukontason, Hiroshi Kurohashi, Kabkaew L. Sukontason</i>	14:25-14:50
S1302M06	Decomposers of carrion: Structural and functional relationships of micro- and macroorganisms removing vertebrate carcasses from terrestrial ecosystems <i>Jennifer L. Pechal, Mark E. Benbow, Tawin L. Crippen, Aaron M. Torone, Jeffery K. Tonibergh</i>	14:50-15:15
	Coffee/Tea Break	15:30-16:00
S1302M07	Recent studies on factors affecting larval development in forensically important Australian blowflies <i>James Wallman</i>	16:00-16:25
S1302M08	Three forensic insights from a review of ecological succession on carrion <i>Martin Villet</i>	16:25-16:50
	Closing Remarks <i>Martin Villet</i>	16:50-17:00

## S 1303

Impact of climate change and natural disaster in arthropod vector  
Symposium Organizers : Mutsuo Kobayashi(Japan), Kom Sukontason(Thailand)

## Room 13

August 21, Tuesday

Code No.	Presentation Title Authors_Presenting author	Time
S1303TU01	Welcoming Remarks & Future prospect of northern expansion of <i>Aedes albopictus</i> in Japan Mutsuo Kobayashi, Osamu Komagata, Naoko Nishi	09:00-09:30
S1303TU02	Aerial vector control following natural disasters in the Southern United States Mark Breidenbaugh	09:30-10:00
S1303TU03	Geographical distribution of larval trombiculid mites in Korea (2005-2007) Jong Yul Roh, Bong Gu Sung, Won Il Park, Eun Hee Shin, Chun Park, Mo-Poun Park	10:00-10:30
	Coffee/Tea Break	10:30-11:00
S1303TU04	Prefabricated trap: Application to monitor fly populations in global change Kom Sukontason, Jutit hadawan Ngam-Alex, Kittikun Monphayak, Tawawee Klong-Alex, Kobbawee L. Sukontason	11:00-11:30
S1303TU05	Seasonal and annual occurrence of blow flies (Diptera: Calliphoridae) associated with longan orchards and a paddy field in Southern Chiang Mai, Thailand Ratchadawan Ngoen-Alex, Kittikun Monphayak, Tawawee Klong-Alex, Kim N. Irvine, Kobbawee L. Sukontason, Kom Sukontason	11:30-12:00
S1303TU06	Outbreak of medically important pest insects in Tsunami affected areas in Tohoku District, Japan Shinji Kasai, Yukihiro Taboru, Mutsuo Kobayashi	12:00-12:30
	Lunch	12:30-14:00

## S 1304

Emerging and re-emerging mosquito-borne viruses  
Symposium Organizers : Annal-Bella Failloux(France), Alain Kohl(United Kingdom)

## Room 13

August 21, Tuesday

Code No.	Presentation Title Authors_Presenting author	Time
S1304TU01	Life traits of <i>Aedes</i> mosquitoes as factors of arboviruses emergence Didier Fontenille, Sebastien River, Melane Duvette, Jean-Sebastien Dehecq	14:00-14:30
S1304TU02	The mosquito <i>Aedes albopictus</i> and its vectorial status Anubis Vega-River, Marie Vallerie, Laurence Minvion, Catalio Anna-Greta, Kanmu Zwickache, Anna-Bella Failloux	14:30-15:00
S1304TU03	The mosquito immune response modulates vector competence for arthropod-borne viruses Carol D. Blair	15:00-15:30
	Coffee/Tea Break	15:30-16:00
S1304TU04	Wolbachia density-dependent inhibition to dengue Virus in three <i>Aedes</i> mosquito species Zhiyang Xi, Xueqing Peng, Guoh Zhen, Jiahong Wu, Guowu Jiang, Peng Lu, Alexander S. Rakhil	16:00-16:30
S1304TU05	Progress in understanding RNA interference (RNAi) as a key control mechanism of arbovirus replication and spread in mosquitoes. Alain Kohl	16:30-17:00

## S 1305

Symbiotic microorganisms associated with medical, hygienic and veterinary pest arthropods  
Symposium Organizers : Takema Fukatsu(Japan), Guido Favia(Italy)

## Room 13

August 22, Wednesday

Code No.	Presentation Title Authors_Presenting author	Time
S1305W01	Introduction to symbiotic microorganisms associated with medical, hygienic and veterinary pest arthropods Takema Fukatsu	09:00-09:20
S1305W02	Symbiosis in ticks, and the microbial community associated with South-American tick vector of rickettsiosis Bessim Chevalla, Mariana G. Spuljakovic, Alvaro Colucci, Sara Epps, Daniele Daffortich, Marcelo B. Latrune	09:20-09:40

Code No.	Presentation Title Authors_Presenting author	Time
S1305W03	Midichloria, the bacterium that invades tick mitochondria <i>Claudio Bandi, Isacopo Grinpo Leandri, Denise Chavira</i>	09:40-10:00
S1305W04	Lariskella arthropodarum, a novel facultative endosymbiont clade in the Rickettsiales associated with stinkbugs, fleas and ticks <i>Yu Matsura, Yoshitomo Kikuchi, Xian-Ying Meng, Ryukichi Kaga, Tokema Fukutzu</i>	10:00-10:20
	Discussion	10:20-10:30
	Coffee/Tea Break	10:30-11:00
S1305W05	Cardinium of Ixodes scapularis: Its Characteristics and Genome Sequence <i>Hiroaki Noda, Yuki Nakamura, Akira Jounaki, Kunko Yamamoto, Timothy J. Runkle</i>	11:00-11:20
S1305W06	Mosquito symbionts as a tool for mosquito borne disease control <i>Guido Favia</i>	11:20-11:40
S1305W07	The mosquito gut microbiota in the war against human pathogens <i>George Dimopoulos</i>	11:40-12:00
S1305W08	Wolbachia genes acquired through lateral gene transfer contribute to feeding habit of the host bed bug <i>Naruo Nishikawa, Takahiro Hosokawa, Kenjiro Oshima, Masahito Hashino, Tokema Fukutzu</i>	12:00-12:20
	Discussion	12:20-12:30
	Lunch	12:30-14:00

## S 1306

## Insecticide resistance in medically important insects (mosquitoes, bed bugs, lice...)

Symposium Organizers : Si Hyeock Lee (Republic of Korea)

## Room 13

August 23, Thursday

Code No.	Presentation Title Authors_Presenting author	Time
S1306TH01	Characterisation of imidacloprid resistance in the housefly <i>Musca domestica</i> (Diptera: Muscidae) <i>Jing Li, Qingmin Wang, Pei Liang, Xiwu Gao</i>	09:00-09:15
S1306TH02	Sustaining malaria control by tackling pyrethroid resistance in <i>Anopheles</i> mosquitoes <i>Rodolphe William Poupardin, Christopher M. Jones, Sara N. Machel, Craig S. Wlating, Henry Ramsay</i>	09:15-09:30
S1306TH03	Spread of overexpressing CYP9M10 (cytochrome P450) haplotypes in southern house mosquito and its possible implication for vector control <i>Kentaro Nakawa, Osamu Kamagata, Shinji Kasai, Hitoshi Kawada, Takashi Tomita</i>	09:30-09:45
S1306TH04	Proliferation of pyrethroid-resistant bed bugs in Japan <i>Osamu Kamagata, Shinji Kasai, Kentaro Nakawa, Takashi Tomita</i>	09:45-10:00
S1306TH05	Molecular mechanism and detection of pyrethroid resistance in the common bed bug, <i>Cimex lectularius</i> <i>Deok Ha Kwon, Keon Maek Seong, Kyeong Sup Yoon, John Marshall Clark, Si Hyeock Lee</i>	10:00-10:15
S1306TH06	Transcriptional analysis of development and detoxification in <i>Culex pipiens quinquefasciatus</i> <i>Liangzhen Yan, Pengcheng Yang, Feng Jiang, Yibo Mu, Chunling Zhao, Le Kong, Feng Cui</i>	10:15-10:30
S1306TH07	Management of head louse resistance using molecular tools <i>Si Hyeock Lee</i>	10:30-10:45
	Coffee/Tea Break	10:30-11:00

## S 1307

## Bartonella in arthropod vectors

Symposium Organizers: Michael Kosoy(U.S.A.), Qiyong Liu(China), Shimon Harrus(Israel)

## Room 16

August 23, Thursday

Code No.	Presentation Title Authors_Presenting author	Time
	<b>Welcoming Remarks</b> <i>Shimon Harrus</i>	14:00-14:15
S1307TH01	<b>Vector competence of hard ticks for Bartonella transmission</b> <i>Sarah Irene Bonnet</i>	14:15-14:45
S1307TH02	<b>Molecular evidence of Bartonella quintana in Pediculus humanus capitis (Pediculidae: Anoplura) infesting young people in selected villages in Laguna province, Philippines</b> <i>Arlene Garcia Bertosa, Mutsumi Kobayashi, Kyoko Sawabe</i>	14:45-15:15
	<b>Coffee/Tea Break</b>	15:30-16:00
S1307TH03	<b>Diversity of Bartonella spp. in flea vectors - insights from studies in Israel</b> <i>Shimon Harrus, Danny Morick, Nira Khokhlova, Yuval Gottlieb, Boris Krasnov</i>	16:00-16:30
S1307TH04	<b>Bat flies as vectors of Bartonella</b> <i>Katharina Dittmar de la Cruz</i>	16:30-17:00
S1307TH05	<b>Bartonella species in rodent fleas in Japan</b> <i>Hidenori Kobeya, Sachu Maruyama</i>	17:00-17:30

## S 1308

## Malaria vector mosquitoes in Asia and Africa

Symposium Organizers: Leopoldo M. Rueda(U.S.A.), Noboru Minakawa(Japan)

## Room 13

August 24, Friday

Code No.	Presentation Title Authors_Presenting author	Time
S1308F01	<b>Ecology of malaria vectors and their Plasmodium parasites in Malaysia</b> <i>Indra Vythilingam</i>	09:00-09:15
S1308F02	<b>Surveillance of malaria vectors and Plasmodium vivax in Korea</b> <i>Terry Allen Klein, Heungs-Chul Kim, Won-Ja Lee, Hee-Choon Sam Lee, Dong-Ryu Lee, Tae-Sang Chang</i>	09:15-09:45
S1308F03	<b>Taxonomic status and distribution of Anopheles Hyrcanus Group vectors of malaria in Asia</b> <i>Leopoldo M. Rueda</i>	09:45-10:00
S1308F04	<b>VectorMap, an online mapping resource for malaria vectors and related groups in Asia and Africa</b> <i>Desmond H. Foley, Richard C. Wilkerson, Jason H. Richardson, Lewis S. Long, Leopoldo M. Rueda</i>	10:00-10:30
	<b>Coffee/Tea Break</b>	10:30-11:00
S1308F05	<b>Influence of pyriproxyfen on the emergence and survival of malaria vectors in Thailand</b> <i>Alongkot Panlawat</i>	11:00-11:15
S1308F06	<b>Molecular identification and population structure of the malaria vector, Anopheles sinensis (Diptera: Culicidae) in China</b> <i>Yajun Ma, Jiahong Xu, Yong Fan, Manni Xiang, Jing Wu, Ying Ma</i>	11:15-11:30
S1308F07	<b>Malaria vector control in western Kenya</b> <i>Noboru Minakawa, Hiroshi Kawada, Gabriel O. Dala</i>	11:30-11:45
S1308F08	<b>Geographical distribution of Anopheles gambiae and An. arabiensis in Kenya.</b> <i>Kyoko Futami, Gabriel Oda, Ichiharu Minakawa</i>	11:45-12:00
S1308F09	<b>Multimodal pyrethroid resistance in malaria vectors in western Kenya</b> <i>Hiroshi Kawada</i>	12:00-12:30
	<b>Lunch</b>	12:30-14:00
S1308F10	<b>Molecular identification of Anopheles gambiae complex species (Diptera: Culicidae) and its molecular forms in Liberia</b> <i>Normees Talat Fahmy, Peter Joseph Obenauer</i>	14:00-14:15
S1308F11	<b>Ecological and evolutionary determinants of host species choice in African malaria vectors</b> <i>Issa Lyimo</i>	14:15-14:30

Code No.	Presentation Title <i>Authors: Presenting author</i>	Time
S1308F12	Assessment of perceptions of community users and bioefficacy of permethrin incorporated Olyset™ net (LLIN) distributed 5 years before in India <i>P.K. Mital, Ripu Daman Sood, Nisara Kapoor, R.K. Razdan, V.K. Dua, A.P. Dishi</i>	14:30-14:45
S1308F13	Can olfactory memory alter oviposition choice in malaria vectors? <i>Manuela Herrera-Varela, Jenny Lindh, Steve Lindsay, Ulrike Fittler</i>	14:45-15:00
S1308F14	A novel approach of evaluating and analyzing oviposition bioassays for malaria mosquitoes <i>Michael Nyanganga Okal, Jenny Lindh, Steve Lindsay, Ulrike Fittler</i>	15:00-15:15
S1308F15	Biological and behavioral characterization of <i>Anopheles funestus</i> -like species from Northern Malawi <i>Vezzengho Samuel Bumuh, Richard Hunt, Maureen Coetzee, Lizette Koekemoer</i>	15:15-15:30
Coffee/Tea Break		15:30-16:00

## Section 14 Invasive Species and Quarantine

Conveners: Fang-hao Wan(China), Ki-Jeong Hong(Republic of Korea)

### S 1401

#### Ecological impacts of invasive insects

Symposium Organizers: Marc Kenis(Switzerland), Geoff M. Gurr(Australia)

#### Room 1

August 21, Tuesday

Code No.	Presentation Title Authors, Presenting author	Time
S1401TU01	Invasive species, conservation biology, and biological control - a three way collision: Now time to join forces Roy Van Driesche, Mark Hovde, Charlotte Gaudin	09:00-09:30
S1401TU02	Ecological impacts of red imported fire ant <i>Solenopsis invicta</i> Buren (Hymenoptera: Formicidae) on ant community in China Biqiu Wu, Guojunwen Liang, Yijuan Xia, Letao Zhang, Yangyue Liu	09:30-09:45
S1401TU03	Impacts of two alien ants, <i>Anoplolepis gracilipes</i> and <i>Pheidole megacephala</i> , on native ant fauna in Okinawa, Japan Naomi Kadowaki, Hitoshi Ohnishi, Hirotaka Tanaka, Kazuki Tsuji, Naoto Kiyama	09:45-10:00
S1401TU04	Understanding invasion history and the eradication project of the Argentine ant in Japan Maki N Inoue, Aichi Goto	10:00-10:15
S1401TU05	Ecological and economic impact of the alien B and Q whiteflies of the <i>Bemisia tabaci</i> species complex in China ShuSheng Liu	10:15-10:30
Coffee/Tea Break		10:30-11:00
S1401TU06	The impact of the introduced parasitoid <i>Torymus sinensis</i> , a biological control agent of <i>Dryocosmus kuriphilus</i> , on the indigenous parasitoid <i>T. beneficus</i> on chestnut trees in Japan Kaori Yano	11:00-11:15
S1401TU07	The invasive bark beetle, <i>Ips grandicollis</i> , and climate change: dual risks to bio-control of the woodwasp <i>Sirex noctilio</i> Fazila Yousuf, Geoff M. Gurr, Catherine W. Gahan, Angus J. Carnegie, Robert A. Bedding, Richard Barchard	11:15-11:30
S1401TU08	Decline of native ladybird beetles caused by an invasive alien predator Oldrich Nedved, Hiram F. Pop, Tim Aebischer, Nick J.B. Isaac, Marc Kenis, Thomas Czikolka, Gilles-Henri Martin, Peter M.J. Brown, Louis Hempter, Remy Polard	11:30-11:45
S1401TU09	Reproduction and critical pupation weight in the invasive and native populations <i>Harmonia axyridis</i> (Coccinellidae, Coleoptera) Natalia Belokova	11:45-12:00
S1401TU10	Habitat disturbance disturbance differentially benefits exotic over native coccinellids in agricultural landscape mosaics Tania Zaviezo, Audrey Guez, Tatjana Rued, Franck Castel	12:00-12:15
S1401TU11	The spread of the Asian honeybee, <i>Apis florea</i> in Sudan: A test case for invasive insect species Magbel Ahmed Abdalla El-Niweiri, Robin F.A. Moritz	12:15-12:30
Lunch		12:30-14:00

### S 1402

#### Ecological attributes of invasive alien species

Symposium Organizers: Helen Roy(United Kingdom), Sandy M. Smith(Canada), Philippa Gerard(New Zealand), Bao-Li Qiu(China)

#### Room 1

August 21, Tuesday

Code No.	Presentation Title Authors, Presenting author	Time
S1402TU01	Biological attributes contributing to the invasiveness of <i>Sitona lepidus</i> in New Zealand and the success of its introduced biological control agent <i>Microctonus aethiopoides</i> Philippa Jane Gerard, Colin Fergusson, Scott Handrick, Mark McNeil, Craig Phillips	14:00-14:30



Code No.	Presentation Title Authors: Presenting author	Time
S1402TU02	Asymmetric reproductive interference between specialist and generalist predatory <i>Harmonia</i> ladybirds Suzuki Noriyuki, Naoya Osawa, Takayoshi Nishida	14:30-15:00
S1402TU03	Evaluating gene flow of the western corn rootworm in a European hybrid zone Gerald Bermond, Aurelie Bin, Marc Ciofi, Thomas Guillemaud	15:00-15:15
S1402TU04	Population genetics of interactions <i>Leptinotarsa decemlineata</i> and <i>Coccinella septempunctata</i> Konstantin Kitaev, Maxim Udolov, Galina Berkovskaya	15:15-15:30
	Coffee/Tea Break	15:30-16:00
S1402TU05	Population genetics of the first plataspid stink bug species complex (Hemiptera: Heteroptera: Plataspidae: Megacopta) reported in North America Tracie M. Jenkins, Tyler D. Eaton	16:00-16:15
S1402TU06	Cloning, expression and characterization of mitochondrial manganese superoxide dismutase from the Whitefly, <i>Bemisia tabaci</i> Xianfang Gao	16:15-16:30
S1402TU07	Aggressive interactions between <i>Solenopsis geminata</i> and both social forms of <i>S. invicta</i> in Taiwan Li-Chuan Lai, Kuo-Hsun Hsu, Wen-Jer Wu	16:30-16:45
S1402TU08	Little fire ant, <i>Wasmannia auropunctata</i> , established on Guam Ross H Miller, Maya Raymond	16:45-17:00
S1402TU09	Introduced Asian paper wasp in New Zealand: Diploid males and triploid females production due to bottleneck Koji Tsuchida	17:00-17:15
S1402TU10	The Potential geographical distribution of <i>Bactrocera correcta</i> (Diptera: Tephritidae) in China Wenlong Ni, Zhihong Li, Jijiao Wu, Yulong Deng	17:15-17:30

## S 1403

## Biotic interactions in the context of biological invasion

Symposium Organizers: Shu-Sheng Liu(China), Marcel Dicke(The Netherlands)

## Room 3

August 23, Thursday

Code No.	Presentation Title Authors: Presenting author	Time
S1403TH01	Biological invasions and endosymbiosis in Arthropods, a case study: <i>Bemisia tabaci</i> Helene Delatte, Nathalie Becker, Magalie Thierry, Jean-Michel Lett, Reynaud Bernard	09:00-09:30
S1403TH02	Effects of behavior and habitat use on the spread and impact of invasive herbivores David Crowder, Romi Horowitz, Yves Carriere	09:30-10:00
S1403TH03	Invasion of the horse-chestnut leaf miner in Europe: Implications at all trophic levels Marc Renis, Christelle Pere, Sandrine Girardoz	10:00-10:15
S1403TH04	Plant-mediated interactions between begomoviruses and invasive whiteflies Junbo Lu, Xue-Ping Zhou, Shu-Sheng Liu	10:15-10:30
	Coffee/Tea Break	10:30-11:00
S1403TH05	Direct and Indirect Impacts of Infestation of <i>Myzus persicae</i> on <i>Bemisia tabaci</i> Xiaoliang Tan, Su Wang, Tong-Xian Liu	11:00-11:15
S1403TH06	Global dynamics of the symbiosis between invasive ambrosia beetles, fungi and bacteria: Insights from high-throughput DNA sequencing Jiri Hulcr, Nina R. Roudree, Sarah E. Diamond, Lukasz L. Stalinski, Noah Fierer, Rob R. Dunn	11:15-11:30
S1403TH07	A trial to evaluate a potential risk of tree-killing diseases by <i>Raffaella</i> -ambrosia beetle complex Naoto Kamata, Sunisa Sanguansub, Hideaki Goto	11:30-11:45
S1403TH08	Impact of invasive insect herbivores on the foraging behavior of native parasitoids via changes in induced plant volatiles: A comparative study Gayford Desmumet, Matthias Held, Ted Turlings	11:45-12:00
S1403TH09	Ecology and evolution of invasive plant species and their natural enemies Arjen Biere, Jeff Harvey, Wim Van der Putten, Roel Verhoeven	12:00-12:15
S1403TH10	Does mutualism drive co-invasion? The case of <i>Solenopsis invicta</i> (Hymenoptera: Formicidae) and <i>Phenacoccus solenopsis</i> (Hemiptera: Pseudococcidae) Aiming Zhou, Yangyue Lu, Ling Zeng, Yiyuan Xu, Guangwen Liang	12:15-12:30

## S 1404

## Biological control: Benefit sharing and the balance between benefits and risks

Symposium Organizers : Jacques Brodeur (Canada), Barbara Barratt (New Zealand),  
Peter Mason (Canada), George Heimpel (U.S.A.),  
Helen Roy (United Kingdom)

## Room 1

August 23, Thursday

Code No.	Presentation Title Authors, Presenting author	Time
S1404TH01	Will Access and Benefit Sharing procedures impede biological control: The problem <i>Barbara L. P. Barratt, Jacques Brodeur</i>	09:00-09:30
S1404TH02	New Access & Benefit Sharing regulations: Is there a future for the biocontrol industry? <i>Johanna Klapwijk</i>	09:30-09:45
S1404TH03	The current status of the conflict between ABS and insect-resource industrialization in Korea <i>Ohseok Kwon</i>	09:45-10:00
S1404TH04	Access and benefit sharing - a growing challenge for biological control in Europe? <i>Franz Bigler, Matthew J. Cock, Karel Bolckmans, Jaap C. Van Lenteren</i>	10:00-10:15
S1404TH05	The effects of Access and Benefit Sharing (ABS) on the utilization of biological control in Brazil <i>Jose Roberto Pastali Parra</i>	10:15-10:30
	Coffee/Tea Break	10:30-11:00
S1404TH06	Access and Benefit Sharing: Will taxonomic research be facilitated or not? <i>Andrew M. R. Bennett, Jeffrey Hunter Skevington, Frederic Beaulieu, Peter G. Mason</i>	11:00-11:15
S1404TH07	Challenges for the biological control sector in the implementation of the Nagoya Protocol <i>Marie Schloen, Jacques Brodeur</i>	11:15-11:30
	Lunch	12:30-14:00
S1404TH08	Climate change and biological control: State of knowledge, risks and opportunities <i>Philippa Jane Gerard, Matthew J. W. Cock, David R. Gillespie</i>	14:00-14:30
S1404TH09	Assessing the ecological risk posed by a recently established invasive alien predator <i>Marc Kenis, Tim Adriaens, Peter M. J. Brown, Angelos Katsanis, Gilles San Martin, Etienne Branquart, Dirk Moes, Rene Eschen, Renate Zindler, Johan Van Vloenderen</i>	14:30-15:00
S1404TH10	Does knowledge of natural host range always help predict host range in new areas of introduction? A case study with the braconid parasitoid <i>Microctonus aethiopoides</i> Loan <i>Barbara L. P. Barratt, Rolf G. Obergriener, Diane M. Borton, Mohamed Mouma, Mark Stevens, Miguel A. Alonso-Zarazaga, Cor J. Vink, Colin M. Ferguson</i>	15:00-15:30
	Coffee/Tea Break	15:30-16:00
S1404TH11	Assessing risks of post-introduction shifts in host specificity of parasitoids introduced to control aphids <i>Keith R. Hopper</i>	16:00-16:30
S1404TH12	Biological control and the carbon cycle <i>George Eugenio Heimpel</i>	16:30-17:00

## S 1405

## Recent issues on exotic insects travelling through the continents

Symposium Organizers : Seunghwan Lee (Republic of Korea), Kim Hoelmer (U.S.A.)

## Room 2

August 23, Thursday

Code No.	Presentation Title Authors, Presenting author	Time
S1405TH01	Brown marmorated stink bug, <i>Halyomorpha halys</i> (Stål): Impact of an Asian species introduced into North America <i>Tracy C. Leskey, Anne Nielsen</i>	09:00-09:15
S1405TH02	Observations on current and future <i>Drosophila suzukii</i> distribution, impact and management in the United States <i>Vaughn Walton, Hannah Burrack, Rufus Isaacs, Peter Shearer</i>	09:15-09:30
S1405TH03	Urban and agricultural impact of <i>Megacopta cribraria</i> in the southeastern United States <i>Michael Dennis Toews, Tracie M. Jenkins, Dan Sultzer, Phillip Roberts, David Bursell, John All, Stormy Sparks, John Raberson, Wayne Gardner</i>	09:30-09:45



Code No.	Presentation Title Authors, Presenting author	Time
S1405TH04	Asian citrus psyllid and Huanglongbing in the New World: Impact and management Phillip A. Stansly, Jawwad A. Qureshi	09:45-10:00
S1405TH05	<i>Monochamus</i> species as potential vectors of the pine wood nematode in Europe : What can be learnt from the Asian situation ? Geraldine Roux, Edmundo Souto, Juan Alberto Rojas, Alonso, Alain Roques	10:00-10:15
S1405TH06	Asian soybean aphid in North America ? Invasion and classical biological control George Eugenio Heimpel, Keith R. Hopper, Rosalva Gandiano, Kim Haelmer, Kangming Wu, Joon-Ho Lee	10:15-10:30
	Coffee/Tea Break	10:30-11:00
S1405TH07	The citrus flatids, <i>Metatifa pruinosa</i> , recent outbreak in the Korean Peninsula Seunghwan Lee, Minyoung Kim	11:00-11:15
S1405TH08	Invasion of leafminers, <i>Liriomyza</i> spp. (Diptera: Agramyzidae), in the eastern Palearctic region Yoshihisa Abe	11:15-11:30
S1405TH09	Invasion of exotic gall midges in East Asia Heung-Sik Lee, Tae-Aun Kang, Ki-Jung Hong	11:30-11:45
S1405TH10	Dispersal patterns of exotic forest pests in South Korea Won-Il Choi, Young-Seuk Park, Sang-Hyun Kati	11:45-12:00
S1405TH11	The status quo of invasive alien insects species and plant quarantine in Korea Ki-Jeong Hong, Jang-Ho Lee, Gwan-Seok Lee, Seunghwan Lee	12:00-12:15
S1405TH12	Biological control options of the invasive tomato pest <i>Tuta absoluta</i> Alberto Urbaneja, Nicolas Desnouv	12:15-12:30
	Lunch	12:30-14:00
S1405TH13	Introduction of natural enemies against exotic insect pests in Japan Etai Yano	14:00-14:15
S1405TH14	Climate change and pest risk analysis Kyla Jane Finlay, Jo Elizabeth Luck	14:15-14:45
S1405TH15	Lessons from the global eradication and response database David Maxwell Suckling, John M. Kean, Lloyd D. Stringer, Patrick C. Tobin, Dan A. Herms, Danny C. Lee, Deborah G. McCullough, Therese Pluess, Takehito Yamamoto	14:45-15:15
	Coffee/Tea Break	15:30-16:00

## Section 15 Acarology

Conveners: Hiroshi Amano(Japan), Terry Klein(U.S.A.)

## S 1501

## Bioactive molecules of ticks

Symposium Organizers: Kozo Fujisaki(Japan), Jinlin Zhou(China)

## Room 14

August 20, Monday

Code No.	Presentation Title Authors: Presenting author	Time
S1501M01	A immunomodulatory protein RH-p36 is relating to hard tick blood-feeding success and oviposition <i>Jinlin Zhou, Xiaojuan Lu, Fengyun Guo</i>	09:00-09:30
S1501M02	Characterization and movement of iron binding proteins on <i>Haemaphysalis longicornis</i> <i>Tetsuya Tanaka, Remi Linggongat Galay, Hiroyuki Mori, Kyaw Min Aung, Hiroki Maeda, Rika Umemitsu-Shirafuji, Xueyan Xuan, Hiroshi Suzuki, Masami Mochizuki, Kozo Fujisaki</i>	09:30-10:00
S1501M03	The role of autophagy in the hard tick <i>Haemaphysalis longicornis</i> <i>Rika Umemitsu-Shirafuji, Remi Linggongat Galay, Hiroki Maeda, Hiroyuki Konna, Tetsuya Tanaka, Kozo Fujisaki</i>	10:00-10:30
Coffee/Tea Break		10:30-11:00

## S 1502

## Dispersal and behavior of the Acari

Symposium Organizers: Norihide Hinomoto(Japan), Chuleui Jung(Republic of Korea),  
Peter Schausberger(Austria)

## Room 14

August 20, Monday

Code No.	Presentation Title Authors: Presenting author	Time
S1502M01	Genes and models to understand dispersal: What do they tell us about the current and potential invasive route of the tomato red mite, <i>Tetranychus evansi</i> ? <i>Maria Navajas</i>	14:00-14:30
S1502M02	Worldwide journey of invasive alien mites and ticks <i>Keiichi Goka, Kimiko Okabe, Ai Takano</i>	14:30-15:00
S1502M03	Population structure of phytoseiid mite <i>Neoseiulus womersleyi</i> and its perspective on conservation biological control <i>Norihide Hinomoto</i>	15:00-15:15
S1502M04	Patch-leaving decision of the predatory mite based on multiple signals <i>Taro Maeda</i>	15:15-15:30
Coffee/Tea Break		15:30-16:00
S1502M05	Local movement of prey-predatory mites and implementation in management <i>Chuleui Jung, Siyoung Kim, Joao-Ho Lee</i>	16:00-16:15
S1502M06	Belowground fungus adaptively modulates the foraging behavior of an aboveground plant-inhabiting predator <i>Peter Schausberger, Stefan Peneder, Daniela Hoffmann</i>	16:15-16:45
S1502M07	Aerial dispersal of <i>Aceria carvi</i> (Acari: Eriophyidae) <i>Rastislav Zemek, Frantisek Reindl</i>	16:45-17:15
S1502M08	Epidemiology of ticks (Acari: Ixodidae) infesting buffaloes ( <i>Bos Bubalus bubalis</i> ) in district Toba Tek Singh, Punjab, Pakistan <i>Muhammad Sohail Sajid, Asif Iqbal, Muhammad Nisar Khan, Muhammad Kasib Khan, Zafar Iqbal</i>	17:15-17:30

## S 1503

## Current Issues of tick and mite collection, and identification and distribution of rickettsial parasites.

Symposium Organizers : Richard Robbins(U.S.A.), Allen Richards(U.S.A.)

## Room 14

August 21, Tuesday

Code No.	Presentation Title Authors, Presenting author	Time
S1503TU01	Rickettsiae that parasitize ticks and mites <i>Allen L. Richards</i>	09:00-09:30
S1503TU02	Study of endemic foci of chigger mite as a vector of scrub typhus <i>Won-Jong Jang, In Yang Lee, Hyeon-Je Song, Hyun-Ji Seo, Sun-Hae Shin, Yeon-Joo Choi, Kyung-Hee Park</i>	09:30-10:00
S1503TU03	Tick-borne pathogen surveillance in the country of Georgia: Implications for unrecognized spotted fever group rickettsial disease in humans. <i>John Scott Lee, Lewis S. Long, Sarah Piarick, Elizabeth Wallace, Monica O'Guinn, Nikoloz Tsertsvadze, Irakli Sikharulidze, Nikoloz Kiso, Mariam Zakalashvili, Maku Kakheidze</i>	10:00-10:30
	Coffee/Tea Break	10:30-11:00
S1503TU04	Australian ticks, their rickettsial symbionts and associated human diseases <i>Gemma Vincent, John Stenos, Mohammad Yuzid Abbad, Leonard Izzard, Aminul Islam, Stephen Graves</i>	11:00-11:30
S1503TU05	Ecological changes affecting the distribution and potential for tick-borne diseases in the Republic of Korea <i>Terry Allen Klein, Hwang-Chul Kim, Won-Jong Jang, Kyung-Hee Park, Jeon-Seok Chae, Baek-Jun Kim, Richard Robbins, Allen Richards</i>	11:30-12:00
	Lunch	12:30-14:00

## S 1504

## Seasonal adaptations of the Acari

Symposium Organizers : Dimitris Koveos(Greece), Takeshi Suzuki(Japan)

## Room 14

August 22, Wednesday

Code No.	Presentation Title Authors, Presenting author	Time
S1504W01	Ovarian stage and vitellogenin gene expression in diapause adults of the two-spotted spider mite <i>Tetranychus urticae</i> <i>Hideharu Numata, Yuka Kawakami, Shin G. Goto, Katsura Ito</i>	09:00-09:15
S1504W02	Overwintering ecology of phytoseiid mites in fruit orchards <i>Chuleui Jung, Mitsuhiro Kawashima, Hasan El Tay, Joen-Ho Lee</i>	09:15-09:30
S1504W03	Is solar ultraviolet-B radiation an ultimate factor causing diapause in <i>Tetranychus urticae</i> under temperate climatic conditions? <i>Masahiro Osakabe, Shoko Kawaguchi, Yasumasa Murata</i>	09:30-10:00
S1504W04	Virtual reality experiments on a micro-locomotion compensator: seasonal changes in the spectral sensitivity of <i>Tetranychus urticae</i> <i>Takeshi Suzuki, Takeshi Kojima, Makiko Tokeda, Masayuki Sakuma</i>	10:00-10:30
	Coffee/Tea Break	10:30-11:00

## S 1505

## Ecology and behavior of soil-inhabiting mites

Symposium Organizers : Naoki Mori(Japan), Hiroshi Amano(Japan)

## Room 14

August 24, Friday

Code No.	Presentation Title Authors, Presenting author	Time
S1505F01	Underground ecology of mites in soil porosity and its significance in pest management <i>Hiroshi Amano</i>	11:00-11:30

Code No.	Presentation Title Authors_Presenting author	Time
S1505F02	Identification of the female sex pheromone and unique fatty acid metabolisms of <i>Tyrophagus similis</i> (Acari: Acaridae) Naoki Mori, Takako Aboshi	11:30-12:00
S1505F03	Reproductive capacity of greenhouse spinach mite, <i>Tyrophagus similis</i> Volgin, feeding on commonly used organic fertilizers Muhammad Naveed Baloch, Naoki Mori, Takako Aboshi, Hiroshi Amano	12:00-12:15
S1505F04	Hydrozetid mites (Oribatida: Hydrozetidae) on water plants in Lake Biwa, Japan, with some notes on its biogeography. Satoshi Shimano, Takuya Sato, Gen-ichi Kurih, Yasushi Kusaka	12:15-12:45
Lunch		12:30-14:00

## S 1506

## Agricultural acarology - invasion and expansion

Symposium Organizers : Hidenari Kishimoto(Japan), Muhammad Haseeb Baloch(U.S.A.), David James(U.S.A.)

## Room 14

August 24, Friday

Code No.	Presentation Title Authors_Presenting author	Time
S1506F01	Designing digital multi-media identification tools for invasive mites Terrence W. Walters, Ronald Ochoa, Jennifer Beard	14:15-14:30
S1506F02	Reproductive performance and acaricide susceptibility of the invading tomato red spider mite, <i>Tetranychus evansi</i> Baker & Pritchard Tetsuo Gotoh	14:30-14:45
S1506F03	Tomato red spider mite, <i>Tetranychus evansi</i> Baker & Pritchard: Invasion and management in Africa. Karl M. K. Flöbe, Markus Knapp, Gilberto J. De Moraes, Imelda P. Furtado	14:45-15:00
S1506F04	Expansion and occurrence of <i>Neoseiulus californicus</i> (McGregor), a prospective predacious mite species, in Japan and Korea, and the conservation for biological control of spider mites Hidenari Kishimoto, Mitsuhiro Kawashima, Chuleul Jung, Hiroshi Amano	15:00-15:15
S1506F05	Agricultural acarology in the Philippines: Pest mites and their natural enemies Divina Medina Amalin	15:15-15:30
Coffee/Tea Break		15:30-16:00
S1506F06	Management of <i>Varroa destructor</i> , the ecto-parasitic mite of the honey bee using fungal pathogens Lambert Kanga, Walker Jones, John Adamczyk, Carlos Gracia, John Cascina, Muhammad Haseeb	16:00-16:15
S1506F07	Dissemination of exotic tick and tick-borne infectious agents by migratory birds in the United States of America and abroad Shahid Karim, Nobunika Mukherjee, Michael Sellers, Laquita Burton, Steven Adamson, Richard G. Robbins, Lorenza Beati, Frank Moore	16:15-16:30

## S 1507

## Internal morphology and ultrastructure of mites

Symposium Organizers : Shingo Toyoshima(Japan), Antonella Di Palma(Italy)

## Room 13

August 24, Friday

Code No.	Presentation Title Authors_Presenting author	Time
S1507F01	Functional morphology of accessory structures involved in reproduction among gamasid mites (Acari, Anactinotrichida) Antonella Di Palma, Gerd Alberti	16:00-16:30
S1507F02	Anatomy and ultrastructure of the prosomal salivary glands in the water mites <i>Piona carnea</i> (Koch, 1836) and <i>Teutonia cometes</i> (Koch, 1837) (Acariformes: Hydrachnidia) Andrey Shatrov	16:30-17:00
S1507F03	Presumed paternal genome loss during embryogenesis of predatory phytoseiid mites Shingo Toyoshima, Hiroshi Amano	17:00-17:30

## Section 16 Social Insects

Conveners : Kazuki Tsuji(Japan), Donat Agosti(U.S.A.)

## S 1601

## Recent advances in biology of social insects

Symposium Organizers : Kazuki Tsuji(Japan), Lisa Filippi(U.S.A.)

Room 20

August 23, Thursday

Code No.	Presentation Title Authors, Presenting author	Time
S1601TH01	Not quite eusocial? There are plenty of fun and merits in studying subsocial insects <i>Joe Chun Choe</i>	09:00-09:15
S1601TH02	Social regulation of task-related plasticity in circadian rhythms in honey bee ( <i>Apis mellifera</i> ) workers <i>Gary Bloch</i>	09:15-09:30
S1601TH03	Antioxiant and antibacterial activity of different floral honeys from Western Ghats of Karantaka <i>Shubhshani Ramanath, Anila Menon, Mahesh Mr, Sivaram Venkataramegowda</i>	09:30-09:45
S1601TH04	The clypeal gland in <i>Pyramica sauteri</i> , a novel exocrine structure in ants, and its role in prey capture <i>Johan Billen, Co-Sin Lam, Chung-Chi Lin</i>	09:45-10:00
S1601TH05	Termites, the other social insects <i>Judith Ingrid De Korb</i>	10:00-10:15
S1601TH06	A colony size "sensing" mechanism in an ant <i>Kazuki Tsuji, Ken Sugawara, Tomonori Kikuchi</i>	10:15-10:30
Coffee/Tea Break		10:30-11:00
S1601TH07	Provisioning control by females of the earwig, <i>Anisalabis maritima</i> : Does she adjust provisioning according to the young's need? <i>Seizi Suzuki</i>	11:00-11:15
S1601TH08	Provisioning call by mothers of a subsocial shield bug <i>Shintaro Namakuchi, Lisa Filippi</i>	11:15-11:30
S1601TH09	Mothers regulate synchronous hatching: Maternal vibration in a subsocial burrower bug, <i>Adomerus rotundus</i> <i>Hironori Mukaif, Mantaro Hironaka, Sumio Tojo, Shintaro Namakuchi</i>	11:30-11:45
S1601TH10	Use of multiple compass references in path integration of the subsocial burrower bug, <i>Adomerus rotundus</i> <i>Mantaro Hironaka, Narumi Baba, Takahiko Horiyama</i>	11:45-12:00
S1601TH11	Subsocial habits and phylogenetic relationships of Neotropical Chrysomelinae (Coleoptera, Chrysomelidae) <i>Donald Windsor</i>	12:00-12:15
Lunch		12:30-14:00

## Section 17 Special Issues

S 1701

## Current issues on apiculture

Symposium Organizers : Myeong-Lyeol Lee (Republic of Korea), Siriwat Wongsiri (Thailand)

## Room 2

August 20, Monday

Code No.	Presentation Title Authors_Presenting author	Time
S1701M01	Selection of old nesting sites by <i>Apis dorsata</i> in the Northern parts of Thailand <i>Ratna Thapa, Myeong-Lyeol Lee, Yong-Soo Choi</i>	09:00-09:30
S1701M02	Detection technologies of honeybee diseases in Korea <i>Boram Lee, Van Pha Nguyen, Byoungsu Yoon</i>	09:30-10:00
S1701M03	Honeybee and ectoparasitic mite: Modeling approach to understand the complex <i>Dangwon Kim, Chulmin Jung</i>	10:00-10:30
	Coffee/Tea Break	10:30-11:00
S1701M04	Current status of managed insect pollinator in Korea <i>Hyung-Joon Yoon</i>	11:00-11:30
S1701M05	Honeybee visiting and pollinator attracting characteristics of some honey plants as Black locust replacement in Korea <i>Jingyu Han, Seon-Hyun Kim, Moon-Sup Kim</i>	11:30-12:00
S1701M06	Analysis of pollen in honey <i>Pang-Soo Choi, Soan-Ok Woo, In-Pyo Hong, Sang-Mi Han, Ratna Thapa, Gyu-Ho Byon, Myeong-Lyeol Lee</i>	12:00-12:30
	Lunch	12:30-14:00
S1701M07	Organic beekeeping and organic honey in Thailand <i>Siriwat Wongsiri, Ratna Thapa, Pichai Kongpitak</i>	14:00-14:30
S1701M08	Study of purified honeybee ( <i>Apis mellifera</i> L.) venom from Korea <i>Sang-Mi Han, Kwang-Gil Lee, Soan-Ok Woo, In-Pyo Hong, Yong-Soo Choi, Man-Young Lee, Myeong-Lyeol Lee, Kwankyu Park</i>	14:30-15:00
S1701M09	RT-PCR analysis of deformed wing virus in the workers of honeybee subspecies <i>Apis mellifera carnica</i> <i>Muniswamyreddy Shankar Reddy, Pattabhiramiah Mahesh, Dorofina Brauckner</i>	15:00-15:15
S1701M10	Declining populations of <i>Apis cerana</i> - a threat to agricultural sustainability in Asia <i>Dharam Pal Abrol, Muniswamyreddy Shankar Reddy</i>	15:15-15:30
	Coffee/Tea Break	15:30-16:00

S 1702

## Pathology &amp; Microbial Control

Symposium Organizers : Yu-Chan Chao (Taiwan)

## Room 1

August 20, Monday

Code No.	Presentation Title Authors_Presenting author	Time
S1702M01	When cell therapy meets baculovirus-mediated gene therapy: Applications in tissue engineering <i>Yu-Chen Hu</i>	14:00-14:30
S1702M02	Positional cloning and functional analysis of candidate genes responsible for AcNPV susceptibility in silkworm, <i>Bombyx mori</i> <i>Jian Xia, Kimiko Yamamoto, Joo-man Lee, Hiroshi Mori, Takahito Kusakabe</i>	14:30-14:45
S1702M03	The host range of <i>Bombyx mandarina</i> nucleopolyhedrovirus S2 covers those of <i>Bombyx mori</i> and <i>Autographa californica</i> MNPV <i>Ruolin Cheng, Yiping Xu, Chuanshi Zhang</i>	14:45-15:00



Code No.	Presentation Title Authors, Presenting author	Time
S1702M04	Control of baculovirus infection by host microRNA <i>Yu-Chen Chiao, Yuih-Lung Wu</i>	15:00-15:15
S1702M05	Attenuation of the insect antimicrobial response after baculovirus infection <i>Agata Karolina Jakubowska, Heiko Vogel, Salvador Herrero</i>	15:15-15:30
Coffee/Tea Break		15:30-16:00
S1702M06	Functional analysis of apoptosis suppressor genes encoded by <i>Lymantria dispar</i> multiple nucleopolyhedrovirus <i>Hayato Yamamda, Koji Kitaguchi, Michihiro Kobayashi, Motoko Ikeda</i>	16:00-16:15
S1702M07	N-glycosylation engineering of baculovirus-silkworm glycoprotein expression system <i>Yudai Negata, Hiroaki Mori, JaeMan Lee, Takahiro Kusakabe</i>	16:15-16:30
S1702M08	Baculovirus expression system as a platform for functional study of novel cellulases <i>Chia-Jung Chang, Tzann-Hua David Ho, Yu-Chan Chao, Su-May Yv</i>	16:30-16:45
S1702M09	Development of a bi-cistronic Bacman vector for neural stem/progenitor cells <i>Jhe-Jhih Lin, Hong-Lin Chan, Tzann-Yuan Wu</i>	16:45-17:00
S1702M10	Cellular responses to baculovirus transduction in human mesenchymal stem cells and induced pluripotent stem cells <i>Guo-yu Chen, Yu-Chen Hu</i>	17:00-17:15
S1702M11	Development of a baculovirus expression vector for insect cells and mammalian cells <i>Ming-Kun Liu, Hong-Lin Chan, Tzann-Yuan Wu</i>	17:15-17:30

## S 1703

## Sericulture

Symposium Organizers : Sang Mong Lee (Republic of Korea)

## Room 11

August 20, Monday

Code No.	Presentation Title Authors, Presenting author	Time
S1703M01	Sericin as industrial glue and as additive to tissue culture media <i>Michal Zurevec, Barbara Kladkiewicz, Tereza Staskova, Frantisek Sehnal</i>	14:00-14:15
S1703M02	Display of <i>Bombyx mori</i> alcohol dehydrogenases on the <i>Bacillus subtilis</i> spore surface <i>Keping Chen, Peng Lu</i>	14:15-14:30
S1703M03	Positional cloning of the genes responsible for important traits in the silkworm <i>Toru Shimada, Tsuguru Fujii, Takashi Daimon, Hiroaki Abe, Chikara Hirayama, Akio Ohnuma, Susumu Kotsuma</i>	14:30-14:45
S1703M04	Responses of <i>Bombyx mori</i> cells to nucleopolyhedrovirus infection <i>Michihiro Kobayashi, Motoko Ikeda</i>	14:45-15:00
S1703M05	Identification and regulation of ecdysone response elements (EcREs) in the <i>Bombyx mori</i> cathepsin D promoter <i>Jie Yu, Feng-Yao Wu, Feng-Ming Zou, Jun-Qiang Jia, Zhongzheng Gu</i>	15:00-15:15
S1703M06	Apoptosis-related genes involved in cytoplasmic polyhedrosis virus infection in silkworm, <i>Bombyx mori</i> <i>Kun-Gao, Ping Wu, Xiangyuan Deng, Guangxing Qin, Ting Liu, Heying Qian, Xijie Gao</i>	15:15-15:30
Coffee/Tea Break		15:30-16:00
S1703M07	Molecular and enzymatic characterization of two tetrahydrobiopterin synthesis-related enzymes of the silkworm <i>Bombyx mori</i> <i>Yan Meng, Junshan Gao, Wenjing Wang, Jing Wang, Chaoliang Liu, Toru Shimada</i>	16:00-16:15
S1703M08	Utilization of the <i>Bombyx mori</i> heat shock protein 70 promoter for efficient transgene expression <i>Tae-Won Goo</i>	16:15-16:30
S1703M09	Identification of immune-related genes from the Japanese oak silkworm, <i>Antheraea yamami</i> <i>Seong-Ryul Kim, Seung-Won Park, Kwang-Ho Choi, Tae-Won Goo, Seok-Woo Kang</i>	16:30-16:45

Code No.	Presentation Title Authors, Presenting author	Time
S1703M10	Role of <i>Bombyx mori</i> prophenoloxidase-activating factor in pupal melanisation Kwang Sik Lee, Feng Ming Zou, Bo Yeon Kim, Byung Rae Jin	16:45-17:00
S1703M11	Structural fundamentals of silk protein biopolymer and biomedical applications of silk nanofibrous scaffolds Young Hwan Park, Chang Seok Ki, Jong Bo Park, Hyun Jung Kim	17:00-17:15

## S 1704

## Aquatic Entomology: Biodiversity, ecology and environment

Symposium Organizers : Yeon Jae Bae (Republic of Korea), Kazumi Tanida (Japan)

## Room 11

August 21, Tuesday

Code No.	Presentation Title Authors, Presenting author	Time
S1704TU01	New biomonitoring guidelines using river benthic macroinvertebrates in Japan Kazumi Tanida, Tokao Nozaki, Kimio Hirabayashi, Kay Taya	14:00-14:15
S1704TU02	Change in life history traits of a water strider, <i>Aquarius paludum</i> during 1995-2011 in accordance with global warming Tetsuo Harada, Tomoya Furutani, Takashi Shiraki, Shiro Takenaka, Shingo Maehara, Toshiki Tamura, Ken Ito, Kazufumi Doi	14:15-14:30
S1704TU03	The responses and predicted distributions of benthic insects (Ephemeroptera, Odonata, Plecoptera, Coleoptera, and Trichoptera) to global warming: A multivariate study in Korea Fengqing Li, Yong-Su Kwon, Mi-Jung Bae, Namil Chung, Young-Seuk Park	14:30-14:45
S1704TU04	The current status of Australian Ephemeroptera Kyla Jane Finlay	14:45-15:00
S1704TU05	Current status of freshwater macroinvertebrates in Korea Yeon Jae Bae, Sang Woo Jung	15:00-15:15
S1704TU06	Comparative study on tolerance to sea, brackish and fresh water bodies as habitat in oceanic sea skater of <i>Halobates micans</i> and fresh water Halobatinae species <i>Metrocoris histrio</i> (Heteroptera) Takero Sekimoto, Koki Iyota, Yuki Osumi, Takashi Shiraki, Tetsuo Harada	15:15-15:30
Coffee/Tea Break		15:30-16:00
S1704TU07	Directional movement of aquatic insects in larval and adult stages in streams based on individual based models Tuyen Van Nguyen, Rupert Mazzucco, Dong-Hwan Kim, Ulf Dieckmann, Tae-Soo Chan	16:00-16:15
S1704TU08	Biological and genetic aspects of the non-biting midge <i>Glyptotendipes tokunagai</i> Sasa (Diptera: Chironomidae) during 30 generations of rearing under laboratory conditions Min Jeong Beek, Tae Joong Yoon, Jeong Mi Hwang, Yeon Jae Bae	16:15-16:30
S1704TU09	Species abundance distribution of benthic Macroinvertebrate communities under stressful and recovering conditions in the streams Woon-Seok Cha, Dong-Hwan Kim, Young-Seuk Park, Hongsu Kim, Tae-Soo Chan	16:30-16:45

## S 1705

## Insects for foods, pharmacology, and animal feeds

Symposium Organizers : Yeong-Cheol Choi (Republic of Korea),

Yupa Hanboonsong (Thailand), May Berenbaum (U.S.A.)

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## Room 1

August 22, Wednesday

Code No.	Presentation Title Authors, Presenting author	Time
S1705W01	Local ecological knowledge of the weaver ant <i>Oecophylla smaragdina</i> , used as human food, from Vientiane Municipality, Lao PDR Joost Van Haterbeek, Niane Sivangay, Bounthab Phaxaysombath, Arnold van Huis	09:00-09:15
S1705W02	Insects - Source of biologically active substances in contemporary pharmacology Mircea Ciuhrii	09:15-09:30

Code No.	Presentation Title Authors, Presenting author	Time
S1705W03	Status of resources insects research and industrialization in China <i>Xiaoming Chen, Ying Feng</i>	09:30-09:45
S1705W04	Application of butterfly and moth wing patterns on the fabrics?An entrepreunorial approach <i>Ezhilil Nil Nagarajan</i>	09:45-10:00
S1705W05	Genetic differentiation among populations of the medicinal insect <i>Blaps rhynchopetere</i> (Coleoptera: Tenebrionidae) as revealed by AFLP analysis <i>Min Zhao, Ying Feng, Xiaoming Chen, Huanhong Ji, Rui He</i>	10:00-10:15
S1705W06	Utilization of edible insects in China <i>Ying Feng, Xiaoming Chen, Min Zhao</i>	10:15-10:30
	Coffee/Tea Break	10:30-11:00
S1705W07	Assuring food security by using insects as food and feed <i>Arnold Van Huls</i>	11:00-11:15
S1705W08	Structure and properties of silk from African wild silkmoths <i>Addis Teshome Kiebede, Suresh Kumar Rastna, Fritz Vollrath</i>	11:15-11:30
S1705W09	Insect biodiversity and humanity <i>Ke Chung Kim</i>	11:30-11:45
S1705W10	Arazyme and highly active enzymes developed by microbes from insects in Korea <i>Ho yong Park</i>	11:45-12:00
S1705W11	International entomology <i>Thomas Albert Miller</i>	12:00-12:15
S1705W12	Policies to promote Insect Industry in Korea <i>Young-Soo Ahn</i>	12:15-12:30
S1705W13	Molecular mechanism and application of coprisin, defensin-like peptide, from copris tripartitus <i>Jaeem Hwang, Eun-Young Yun, Joon-Ha Lee, Ho Kim, Dong Gun Lee</i>	12:30-12:45
	Lunch	12:30-14:00

## S 1706

Women in Entomology—Challenges and achievements in a new Era  
Symposium Organizers : Ernest S. Delfosse(U.S.A.), Genet M. Tulgatske(U.S.A.)

## Room 3

August 23, Thursday

Code No.	Presentation Title Authors, Presenting author	Time
	Introduction and Welcome remarks	14:00-14:15
S1706TH01	Clarifying initiatives for retaining women entomologists in Academia <i>Sharon Sue Quisenberry</i>	14:15-14:30
S1706TH02	Family and scientific career <i>Silvia Dorn</i>	14:30-14:45
S1706TH03	Taking the "Men" out of "Mentoring" <i>Ernest S. Delfosse</i>	14:45-15:00
S1706TH04	ICE 2008 - A glimpse of the inside story <i>Shirley Hanrahan</i>	15:00-15:15
S1706TH05	Lessons from symbiotic theory for navigating, surviving, and succeeding in an academic career in entomology <i>Diana L. Slix</i>	15:15-15:30
	Coffee/Tea Break	15:30-16:00
S1706TH06	The 7 habits of a highly successful family friendly mentor <i>Genet M. Tulgatske</i>	16:00-16:15
	Conclusion	16:15-16:30

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## **General – Oral**

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## Oral Section 1 Taxonomy

**0 101**

**Coleoptera**

Moderator : Jiri Kolibac(Czech Republic)

**Room 1**

**August 20, Monday**

Code No.	Presentation Title Authors, Presenting author	Time
O101M01	The red palm weevil, <i>Rhynchophorus ferrugineus</i> (Olivier) (Coleoptera: Curculionidae), an entomological 'elephant in the room' Paul Rugman-Jones, Christina Hoddle, Mark Hoddle, Richard Stouthamer	09:00-09:10
O101M02	Click beetles (Coleoptera: Elateridae) of Maharashtra: A case study for Indian Elateridae Amol Prabhakar Patwardhan, Raghunandan Prabhakar Athalye	09:10-09:20
O101M03	Mitochondrial DNA phylogeography of Japanese population of <i>Phelotrupes aureus</i> (Coleoptera, Geotrupidae) and implications for conservation Mayumi Akamine, Kiyoto Maekawa, Masahiro Kan	09:20-09:30
O101M04	Comparative embryology of adephagan beetles: Its phylogenetic implications Yukimasa Kobayashi	09:30-09:40
O101M05	First morphology-based phylogeny of the Saprininae subfamily (Coleoptera: Histeridae) shows remarkable shifts in their biologies. Tomas Lackner, Kazuhori Yoshizawa	09:40-09:50
O101M06	Genetic differentiation and phylogeography of <i>Neofucanus</i> (Coleoptera: Lucanidae) in Taiwan Cheng-Lung Tsai, Wen-Bin Yeh	09:50-10:00
O101M07	Phylogenetic position of termitophilous rove beetle tribe Termitohospitini (Coleoptera: Staphylinidae). Tatsuke Kanao, Taro K. Eldredge, Munetoshi Moriyama	10:00-10:10
O101M08	Phylogeny and biology of <i>Ischyronychini</i> Chapuis 1875 (Coleoptera, Chrysomelidae, Cassidinae) Choru Shin	10:10-10:20
O101M09	Revision of the <i>Dorcus velutinus</i> species group (Coleoptera: Lucanidae) through integrative taxonomic approach Sang Il Kim, Tae Man Han, Tae Hwan Kang, Jongcheol Jeong, Youngbo Lee, Nixomi E Pierce, Philip D. Perkins, Hae-Chul Park	10:20-10:30
O101M10	The oldest fossil Cleroidea and Cucujoidea Jiri Kolibac	10:30-10:40
Coffee/Tea Break		10:30-11:00

**0 102**

**Paraneoptera**

Moderator : Sonja Wedmann(Germany)

**Room 1**

**August 20, Monday**

Code No.	Presentation Title Authors, Presenting author	Time
O102M01	The complete mitochondrial genome of the Mediterranean cryptic species of the whitefly <i>Bemisia tabaci</i> (Gennadius) (Hemiptera: Aleyrodidae) complex Hue-Ling Wang	11:00-11:10
O102M02	Phylogenetic analysis of the plant bug subtribes Monalonini and Odoniellini (Heteroptera: Miridae: Bryocorinae) Namyatova Anna Alekseevna, Gerasimos Cassis	11:10-11:20
O102M03	The fossil reduviids (Heteroptera) of Messel (Germany) and Green River (U.S.A.) Marianne Koch, Sonja Wedmann	11:20-11:30
O102M04	Fossil lace bugs (Heteroptera: Tingidae) from the Eocene Sonja Wedmann, Marianne Koch	11:30-11:40
O102M05	Taxonomic revision of the family Cixiidae from Korea (Homoptera: Fulgoroidea) Mohammad Atikur Rahman, Yang Jung Kwon	11:40-11:50

Code No.	Presentation Title Authors_Presenting author	Time
O102M06	Systematic review of the sub-family Phyllinae (Heteroptera: Miridae) in the Korean Peninsula with discussion on phylogenetic relationship within family Miridae <i>Ram Keshari Duwal, Sunghoon Jung, Seunghwan Lee</i>	11:50-12:00
O102M07	Faunistic studies of tribe Halyini (Hemiptera, Pentatomidae, Pentatominae) of Pakistan with description of nine new species <i>Abdul Manan Shaikh, Narsen Memon, Mansoor Ali Shah, Nadir Ali Birmani</i>	12:00-12:10
O102M08	Revision of Asian species of genus <i>Halya</i> Fabricius (Hemiptera: Pentatomidae: Halyini) in addition to description of new species from Pakistan <i>Narsen Kausar Memon</i>	12:10-12:20
Lunch		12:30-14:00

## O 103

## Diptera

Moderator : Lara Ellen Harrup(United Kingdom)

## Room 12

August 20, Monday

Code No.	Presentation Title Authors_Presenting author	Time
O103M01	Three new species of the genus <i>Polypedium</i> Kieffer (Diptera: Chironomidae) from the Yaeyama Islands, Japan, with comments on the taxonomic implication of the superior volsella <i>Nao Yamamoto, Masaru Yamamoto, Toshiya Hironaka</i>	09:00-09:10
O103M02	India bluetongue vector network: Molecular and morphological taxonomy of south Indian <i>Culiseta</i> <i>Lara Ellen Harrup, Israel Stalin, Y. Krishnamohan Reddy, Susmitha Sudheer, Y. Narasimha Reddy, S.M. Byregowda, Ravanti Brar, Minakshi Prasad, Goya Prasad, Bethan Purse, Mudassar Chanda, David Rogers, James Logan, Clove Brand, Mike Birkett, John Pickett, Simon Carpenter</i>	09:10-09:20
O103M03	A systematic study of the genus <i>Chrysotoxum</i> Meigen (Diptera, Syrphidae) in Korea <i>Jang Wook Suk, Ho-yeon Han</i>	09:20-09:30
O103M04	Uliidiidae (Diptera) systematic - Molecular and morphological aspects <i>Tatiana Galinskaya</i>	09:30-09:40
O103M05	Systematic study of the family Bombyliidae (Diptera: Asiloidea) in Korea <i>Yong-Bang Lee, Ho-yeon Han</i>	09:40-09:50
O103M06	Utility of COI, COII and ND4 genes for discriminating forensically important Diptera <i>Alicia Eva Timm, Trevor Stomper, Gregory Dahlem, Ronald Debray</i>	09:50-10:00
O103M07	A systematic revision of the Korean Lauxaniidae (Insecta: Diptera) <i>Hyun-suk Lee, Ho-yeon Han</i>	10:00-10:10
O103M08	Heterogeneity and prevalence of cryptic species in <i>Wolbachia</i> infected uzifly <i>Exorista sorbifrons</i> (Diptera:Tachinidae) <i>Puttaraju Hosagavi Puttegowda, Guruprasad N. M.</i>	10:10-10:20
O103M09	Phylogeny of the mosquito tribe Culicini (Diptera, Culicidae) based on COI sequences and morphology. <i>Jacques Dubois, Ralph E. Harbach, Ian J. Kitching, C. Lorna Culverwell, Yvonne-Marie Linton</i>	10:20-10:30
Coffee/Tea Break		10:30-11:00

## O 104

## Hymenoptera

Moderator : Benjamin Daniel Hoffmann(Australia)

## Room 11

August 21, Tuesday

Code No.	Presentation Title Authors_Presenting author	Time
O104TU01	The phylogeny of chelonine wasps (Hymenoptera: Braconidae) with special reference to the species diversity of the Australian fauna <i>Rebecca Kille, John T. Jennings, Andrew D. Austin</i>	09:00-09:10



Code No.	Presentation Title Authors_Presenting author	Time
O104TU02	Phylogeny and higher classification of Mutillidae (Hymenoptera): Re-evaluation based on morphology <i>Denis John Brothers, Arkady S. Lelaj</i>	09:10-09:20
O104TU03	The phylogeny of Tenthredinidae (Hymenoptera): A morphological perspective <i>Lars Kragmann Hoffmann</i>	09:20-09:30
O104TU04	Taxonomic confusion and misidentification of multiple invasive ant species - Multiple current species are species complexes. <i>Benjamin Hoffmann, Alan Andersen</i>	09:30-09:40
O104TU05	Filling the gaps - New lower Cretaceous Hymenoptera and the early evolution of the order <i>Lars Kragmann Hoffmann</i>	09:40-09:50
O104TU06	Why was the genus <i>Amblyopone</i> split from the genus <i>Stigmatomma</i> ? (Hymenoptera: Formicidae) - Mandibular evolution in <i>Dracula</i> ants told from males <i>Masashi Yoshimura</i>	09:50-10:00
O104TU07	Employing polydnavirus genes to uncover cryptic species in Ichneumonidae <i>Victoria Peak, Michael Sharkey</i>	10:00-10:10
O104TU08	Morphology and molecules for the masses: remarkable species diversity in a large and taxonomically challenging genus of ants. <i>Kathryn Susanne Sparks, Andy Austin, Alan Andersen, Steve Shittrick, Steve Dannellan</i>	10:10-10:20
O104TU09	New insight into an old genus: Revising <i>Disholcaspis</i> Dalle Torre & Kieffer, 1910 (Hymenoptera: Cynipidae) <i>Crystal McEwen</i>	10:20-10:30
	Coffee/Tea Break	10:30-11:00
O104TU10	Phylogeny of Dryinidae: Evolution of Fulgoromorpha parasitism <i>Toshiharu Mita</i>	11:00-11:10
O104TU11	Comparative mitochondrial genomics of Hymenoptera <i>Shao-Jun Wei, Xue-xin Chen, Bao-cai Shi, Ya-Jun Gong</i>	11:10-11:20
O104TU12	A molecular phylogeny of Bethylinidae (Hymenoptera: Chrysidoidea) based on mitochondrial and nuclear genes. <i>Jangok Lim, Sanghaan Jung, Celso Oliveira Azevedo, Hyoang Kim, Il-kwon Kim, Seunghwan Lee</i>	11:20-11:30
O104TU13	Morphometric and landmark based variations of <i>Apis mellifera</i> L. wings in the forest vegetation zone of Nigeria <i>Akeem Abiodun Oyerinde, Michael Chidozie Dike, Olatokun Banwo, Lucius Joseph Bamaiye, Babu Salu Adamu</i>	11:30-11:40
O104TU14	Survey on biology and distribution of <i>Biorhiza pallida</i> Olivier (Hymenoptera: Cynipidae) and identification of its parasitoids in West-Azerbaijan, Iran <i>Abbas Hosseini-Zadeh, Zahra Hashemi-Khatibi, Negar Aliaghi, Nouraddin Shayesteh</i>	11:40-11:50

## O 105

## Lepidoptera

Moderator: Yang-Seop Bae (Republic of Korea)

## Room 4

August 21, Tuesday

Code No.	Presentation Title Authors_Presenting author	Time
O105TU01	Phylogenetic relationships of Agaristinae (Lepidoptera: Noctuidae) based on adult morphology, with special reference to the biogeography of "sound-producing clades" and the evolution of diurnality <i>Shipher Wu, Shu-hong Shiao, Shen Hoon Yew</i>	14:00-14:10
O105TU02	Early amphiesmenopteran and lepidopteran fossils from the mid-Jurassic Jiulongshan formation of China reveal their early evolution and diversity <i>Jae-cheon Sohn, Weifeng Zhang, Conrad Labandera, Chungkui Shih, Donald Davis, Dong Ren, Charles Mitter, Oliver S. Flin</i>	14:10-14:20
O105TU03	Discovery of a new species of the genus <i>Roeslerstammia</i> Zeller (Lepidoptera, Roeslerstammidae) from China, with notes on the identity of two Indian species described by Meyrick <i>Toshiya Hirowatari, Guohua Huang</i>	14:20-14:30
O105TU04	Review the fauna of Pyraustinae (Lepidoptera, Crambidae) in NE China <i>Ma-jie Qi, Cheng-de Li, Hu-lin Han, Yang Seop Bae</i>	14:30-14:40

Code No.	Presentation Title Authors_Presenting author	Time
O105TU05	Three new species of Gracillariidae (Lepidoptera) from China and Japan, with descriptions of the pupal morphology of the genera <i>Eumetriochroa</i> , <i>Guttigera</i> and <i>Metriochroa</i> Shigeki Kobayashi, Guohua Huang, Toshiyo Hirawata	14:40-14:50 14:50-15:00
O105TU06	Overview of moths diversity (Lepidoptera) in the Northern Part of Vietnam Yang-seop Bae, Xuan Vi Le, Kyu-Tek Park, Jong-gyun Park, Nha Van Pham, Cuong Nhu Nguyen, Vuong Thi Pham	
O105TU07	Systematics of Asian skippers (Lepidoptera: Hesperidae): What have been known and what should be done. Hideyuki Chiba	15:00-15:10
O105TU08	How could we solve taxonomic conflicts between traditional data and DNA barcodes in the Korean Butterflies? Tae Hwa Kang, Tae Man Han, Young Bo Lee, Sung Sae Kim, Sang Hyeon Lee, Jong Chel Jeong, Sang Kyu Son, Hae Chul Park	15:10-15:20
O105TU09	Systematic study on the genus <i>Promalactis</i> Meyrick (Lepidoptera: Oecophoridae) Sara Kim, Kyu-Tek Park, John B. Heppner, Seungilwan Lee	15:20-15:30
	Coffee/Tea Break	15:30-16:00
O105TU10	Does mimetic coloration of the model always evolve earlier than that of mimic? A case study based on the "Euploea mulciber mimicry complex" in SE Asia Chia-hsuan Wei, Li-wei Wu, Yu-feng Hsu, Shen Hsin Yen	16:00-16:10
O105TU11	Taxonomical traits of native population of <i>Antheraea assamensis</i> Helfer (Muga silkworm) of Assam, India Ramesh Nath, Dipali Devi	16:10-16:20
O105TU12	Arctiid Diversity from India Jagbir Singh	16:20-16:30
O105TU13	Composition of subfamily Tortricinae (Lepidoptera, Tortricidae) from Northern Part of Vietnam Xuan Vi Le, Thi Vuong Pham, Do-young Chae, Yang-Seop Bae	16:30-16:40

## O 106

Insect taxonomy: Miscellaneous orders  
Moderator: Thomas Hoernschemeyer (Germany)

## Room 6

August 23, Thursday

Code No.	Presentation Title Authors_Presenting author	Time
O106TH01	Finding the sister group of Cryptocercidae + Isoptera: A combined molecular and morphological phylogeny of Dictyoptera Marie Djernaes, Klaus-Dieter Klass, Paul Eggleton	14:00-14:10
O106TH02	Molecular and phylogeographic analysis of the relict dragonflies of 'Epiophlebia' (Insecta: Odonata) Sebastian Buesse, Philipp von Grunbkow, Kazumori Yoshizawa, Sonja Wedmann, Thomas Hoernschemeyer	14:10-14:20
O106TH03	The evolution of insect flight Thomas Hoernschemeyer	14:20-14:30
O106TH04	A preliminary phylogeny of Pyrgomorphidae (Orthoptera: Caelifera) based on morphological characters Ricardo Marino-Perez, Huijun Song	14:30-14:40
O106TH05	The phylogeny of the holometabolous insect orders inferred from transcriptomic, genomic, and morphological data Ralph S. Peters, Karen Meusemann, Oliver Niehuis, Gerrit Hartig, Ulrike Aspöck, Horst Aspöck, Sonja Grath, Hans Pohl, Frank Hunsfeld, Frank Friedrich, Malte Petersen, Alexander Donath, Carina Eisenhardt, Jana Hertel, Wilko Krauss, Jang Lehmann, Christoph Mayer, Hakim Tafer, Peter F. Stadler, Erich Bamberg-Bauer, Karl M. Kjer, Ryuchiro Machado, Duane D. McKenna, Ralf G. Beutel, Bernhard Misof	14:40-14:50
O106TH06	Early evolution and historical biogeography of fishflies (Megaloptera: Chauliiodinae): Implications from a phylogeny combining fossil and extant taxa Xingyue Liu, Fongjie Wang, Changkui Shih, Dong Ren, Qing Yang	14:50-15:00
O106TH07	Phylogenetic analysis of Panorpidae (Mecoptera) with special reference to the female genital plates Na Ma, Baozhen Hua	15:00-15:10



Code No.	Presentation Title Authors, Presenting author	Time
O106TH08	Characteristics of genome sequence of " <i>Candidatus Hamiltonella defensa</i> ", an endosymbiont of the whitefly, <i>Bemisia tabaci</i> Qiong Rao, Shu-Sheng Liu, Xiao-wei Wang	15:10-15:20
O106TH09	Comparative analysis of mitochondrial genomes in Diplura (Arthropoda: Hexapoda) and its utility in diplura phylogeny inference Wan-Jun Chen, Yun-Xia Luo	15:20-15:30
Coffee/Tea Break		15:30-16:00
O106TH10	Systematics of the Australian triozid fauna (Hemiptera: Psylloidea) from the Casuarinaceae Gary Taylor, Andy Austin, John Jennings, Matthew Purcell	16:00-16:10
O106TH11	Phylogeny of Stylops (Strepsiptera) reveals the way of speciation through host specialization to host <i>Andrena</i> bees Jakub Straka, Katerina Jucova	16:10-16:20
O106TH12	Preliminary phylogeny of early lineages of scale insects (Hemiptera: Coccoidea) based on adult male morphology from the early Cretaceous to recent Isabelle Milom Veà, David Alan Grimaldi	16:20-16:30
O106TH13	Cladistic analysis of Caelifera based on continuous-discrete morphological data Maryam Yasemi, Mahsen Moladi-Neyestanak, Alimorad Sarafrazi	16:30-16:40
O106TH14	CalBug: Digitizing California terrestrial arthropod collections Peter T. Oboyski, Joan E. Ball, Kipling Wili, Rosemary G. Gillespie	16:40-16:50
O106TH15	Orthoptera of the Pan-Japan sea area: Taxonomic diversity, distribution and origin Sergey Yurievich Storozhenko	16:50-17:00
O106TH16	Cryptic termite species diversity in Kakamega Forest, Kenya Zipporah Blisleri Osilemo, Andreas Marten, Godfrey H. Kagezi, Johanna P.E.C. Darlington, Manfred Raab, Lulus M. Gitanga, Hamadi I. Bogo, Ronald Brandt	17:00-17:10

## Oral Section 2 Physiology

O 201

Insect Immunology

Moderator: Jian Hu(China)

Room 2

August 20, Monday

Code No.	Presentation Title Authors, Presenting author	Time
O201M01	Immune inducible factors in the cuticle of the silkworm, <i>Bombyx mori</i> Tsunaki Asano	16:00-16:10
O201M02	The characterization of a concentration-sensitive $\alpha$ -adrenergic-like octopamine receptor found on insect immune cells and its possible role in mediating stress hormone effects on immune function Shunfan Wu, Jia Huang, Gongyin Ye	16:10-16:20
O201M03	Hemomucin, an O-glycosylated protein on embryos of wasp <i>Macrocentrus cingulum</i> protect them from being encapsulated by hemocytes of host <i>Ostrinia furnacalis</i> Jian Hu, Shengfeng Hu, Qinyun Xu, Wenqing Zhang	16:20-16:30
O201M04	Cytolytic activity in the mosquito, <i>Armigeres subalbatus</i> Toshihiko Sasaki, Matsuo Kobayashi	16:30-16:40
O201M05	Venomic studies of an endoparasitoid <i>Pteromalus puparum</i> Gongyin Ye, Qi Fang, Lei Wang, Yu Zhu, Zhichao Yan, Fei Wang, Cui Hu	16:40-16:50
O201M06	Identification and characterization of the <i>Diadegma fenestrale</i> and <i>D. fenestrale ichnovirus</i> (DfIV) Ju H Kim, Min kwon, Yang gyun KIM, Si Hyeon Lee, Jin kyung Choi, Jong wook Lee	16:50-17:00
O201M07	Pattern recognition receptors acting in innate immune system of shrimp against pathogen infections Jin-xing Wang	17:00-17:10
O201M08	A novel polydnaviral gene family, BEN, and its immunosuppressive function in larvae of <i>Plutella xylostella</i> parasitized by <i>Cotesia plutellae</i> Md. Ramjan Ali, Yonggyun Kim	17:10-17:20
O201M09	A viral histone H4 interacts with nucleosome components and alters target insect transcriptome revealed by an Illumina RNASeq Rahul Pralhad Hepat, Yonggyun Kim	17:20-17:30

O 202

Molecular Entomology

Moderator: Mizuko Futahashi(Japan)

Room 19

August 20, Monday

Code No.	Presentation Title Authors, Presenting author	Time
O202M01	Utilization of microRNA mimics and inhibitors in pest control Balachandran Jayachandran, Mazhar Hussain, Sossan Asgari	16:00-16:10
O202M02	Pigment synthesis pathway genes and their application to visible transgenic markers Mizuko Futahashi, Ken-ichiro Tatematsu, Kuniko Yamamoto, Keiro Uchida, Ryo Futahashi, Toshiaki Tomura, Hidetaki Sazuru	16:10-16:20
O202M03	Transcriptome analysis of the oriental fruit fly <i>Bactrocera dorsalis</i> (Diptera: Tephritidae) Weiwei Zheng, Tao Peng, Hongyu Zhang	16:20-16:30
O202M04	Characterize the functions of candidate effectors in aphid by RNA interference Shan-Shan Guo, Meng Zhang, Tong-Yuan Liu	16:30-16:40
O202M05	Social interactions and gene expressions involved in the soldier differentiation of a termite <i>Reticulitermes speratus</i> Dai Watanabe, Toru Miura, Kiyoto Mankawa	16:40-16:50
O202M06	<i>Bactrocera dorsalis</i> shows RNAi to orally feeding dsRNAs and bacteria expressing dsRNAs Xiaoxue Li, Mingyan Zhang, Hongyu Zhang	16:50-17:00
O202M07	The Pax6/eyeless gene and the development of Collembolan eyes Yanan Hou, Yulia Luan, Sheng Li	17:00-17:10

Code No.	Presentation Title Authors, Presenting author	Time
O202M08	Effects of plant growth promoting rhizobacteria (PGPR) on induction of plant volatiles and consequences for insect-plant interactions Henry Fadamina, Esther Ngumbi, Kate Nangle, Joseph Kloeppel	17:10-17:20
O202M09	RNAi knockdown of DNA methylation affects gene splicing in the honey bee <i>Apis mellifera</i> Hongmei Li	17:20-17:30
O202M10	Comparative fat body transcriptome analysis of sunn pest in overwintering and summer populations Nurper Guz, Umur Toprak, Dwayne Hegedus, Cathy Coutts, Asli Dagen, Mouzann Mousavi, Serife Bayram, Oktay Mehmet Gorkan	17:30-17:40

## O 203

## Insect metabolism

Moderator: Kevin Steven Powell (Australia)

## Room 4

August 21, Tuesday

Code No.	Presentation Title Authors, Presenting author	Time
O203TU01	Is older stronger? Correlates of ester metabolism with task-related polyethism in <i>Apis mellifera</i> Ling-Hsia Liao, May R. Benveniste, Joel R. Cots	09:00-09:10
O203TU02	Research progress of target and detoxification enzymes related to resistance of <i>Bactrocera dorsalis</i> Guangmao Shen, Wei Dou, Jinyun Wang	09:10-09:20
O203TU03	The effects of Xanthotoxin on some biochemical parameters of <i>Galleria mellonella</i> (Lepidoptera: Pyralidae) Meltem Erdem, Ender Buyukguzel	09:20-09:30
O203TU04	Effects of ethacrynic acid on characterizations of GSTs from <i>Liposcelis bostrychophila</i> Jingling Wu, Candan Wei, Wei Dou, Jinyun Wang	09:30-09:40
O203TU05	Stress response and metabolic defects in apoptosis-deficient mutant in <i>Drosophila melanogaster</i> Fumaki Obata, Enna Kuranaga, Asuka Takeishi, Ming Meng, Tamiyoshi Sago, Masayuki Miura	09:40-09:50
O203TU06	Winter climate change: Elevated adult temperature results in epigenetic loss of cold tolerance in overwintering larvae of the blowfly, <i>Calliphora vicina</i> Paul Christopher Coleman, Jeffery S. Bale, Scott A.L. Hayward	09:50-10:00
O203TU07	Apoptosis and autophagy in the midgut of the American cockroach, <i>Periplaneta americana</i> under short-term and long-term starvation Moon soo Park, Pyoyun Park, Miran Tobeda	10:00-10:10
O203TU08	Flight performance of bumblebees under mars' micro gravity (0.38G) Masami Sasaki, Katsuya Hasegawa, Masamichi Kamashita	10:10-10:20
O203TU09	Oxidative stress is a major factor for the induction of anhydrobiosis in the desiccation-tolerant midge, <i>Polypedilum vanderplanki</i> Richard Cornette, Ken-ichi Awata, Kouichi Kanamori, Qing Gusev, Takahito Kikawada, Takashi Okuda	10:20-10:30
Coffee/Tea Break		10:30-11:00
O203TU10	Frost expression is not essential for recovery from chill coma, acute cold tolerance, and rapid-cold hardening in <i>Drosophila melanogaster</i> Hiroko Uchida, Anthony Percival-Smith, Brent Sinclair	11:00-11:10
O203TU11	Influence of hexane extract of <i>Ocimum sanctum</i> on longevity and reproduction of <i>Dysdercus koenigii</i> Sunil Kayasth, Kamol Kumar Gupta	11:10-11:20
O203TU12	Determination of catecholamines and aminoacids from venom reservoir extract of honeybee ( <i>Apis</i> ) species Nalaballi Shivarajagowda Surendra, Gopasandra Naniyappa Jayaram, Mamaswamyreddy Shankar Reddy	11:20-11:30
O203TU13	Oxygen limitation of thermal tolerance in aquatic insects David T. Bilton, Wilco C.E.P. Verbeek	11:30-11:40
O203TU14	Changes in energy metabolites as well as body color phenotypes for starvation and desiccation resistance in montane populations of <i>D. melanogaster</i> Dau Dayal Aggarwal, Ravi Parkash	11:40-11:50

## O 204

## Insect reproduction

Moderator : Sophie Vandermoten(Belgium)

## Room 20

August 23, Thursday

Code No.	Presentation Title Authors, Presenting author	Time
O204TH01	Discovery of woolly apple aphid <i>Eriosoma lanigerum</i> (Hemiptera: Aphididae) biotypes in Australia Arnoud Costa, David Williams, Kevin Steven Powell	14:00-14:10
O204TH02	Aphid alarm pheromone: Recent advances on biosynthesis and functions Sophie Vandermoten, Eric Haubruge, Frederic Francis	14:10-14:20
O204TH03	Analysis of the yolk proteins expression in the male reproductive system of <i>Drosophila melanogaster</i> Piotr Bebas, Magdalena Maria Majewska, Agnieszka Suszczynska, Joanna Kotwica-Rolinska, Marta Anna Polanska	14:20-14:30
O204TH04	Differential gene expression between fat body of male and female in oriental fruit fly, <i>Bactrocera dorsalis</i> Mei-er Chen, Yu-han Zuo	14:30-14:40
O204TH05	Molecular cloning, expression patterns and RNAi analysis of vitellogenin receptor from the brown planthopper, <i>Nilaparvata lugens</i> (Stål) Kai Lu, Qiang Zhou	14:40-14:50
O204TH06	Fenoxycarb induced disturbance of testes development, apoptosis of germ cells and sperm release in moths Marta Anna Polanska, Michalina Kiatut, Joanna Kotwica-Rolinska, Piotr Bebas	14:50-15:00
O204TH07	Studies on reproductive behaviour of susceptible and insecticide-resistant <i>Plutella xylostella</i> (Linnaeus) Anureet Kaur, Gursharan Singh	15:00-15:10
O204TH08	Effects of hen egg white proteins on reproductive performance of red flour beetle, <i>Tribolium castaneum</i> (Coleoptera: Tenebrionidae) Megha Kansal, Geetu Choudhary, Ranjit Kaur Parshad	15:10-15:20
Coffee/Tea Break		15:30-16:00

## O 205

## Insect neurophysiology

Moderator : Robert F. Mitchell(U.S.A.)

## Room 20

August 23, Thursday

Code No.	Presentation Title Authors, Presenting author	Time
O205TH01	Male calling and the reflex arc in <i>Leptophyes punctatissima</i> David John Robinson, Patricia Ash, Marion Hall	16:00-16:10
O205TH02	Olfactory and gustatory receptor genes in <i>Trissolcus basalis</i> Elijah Palamas, Norman F. Johnson	16:10-16:20
O205TH03	Olfactory conditioning in the German cockroach Jiali Liu, Masayuki Sakuma	16:20-16:30
O205TH04	Expression profiles and functional study of three odorant binding proteins in <i>Nilaparvata lugens</i> Stål He Peng, Shuang-Ni Dong	16:30-16:40
O205TH05	Differential localization of splice variants of a glutamate-gated chloride channel subunit in the housefly Tomo Kito, Fumiyo Oze, Masaaki Azuma, Yoshihiro Oze	16:40-16:50
O205TH06	Sequencing and characterizing odorant receptors sensitive to the pheromones of the Cerambycidae (Coleoptera: Cerambycidae) Robert F. Mitchell, David T. Hughes, Charles W. Luetje, Jacelyn G. Mills, Lawrence M. Hanks, Hugh M. Robertson	16:50-17:00
O205TH07	Lost in translation: Modified olfactory inputs drive male moth behavioral responses in interspecific antennal transplants Seong-gyu Lee, Kathy R. Poole, Charles E. Linn, Neil J. Vickers	17:00-17:10
O205TH08	The overexpression of acetylcholinesterase compensates for the reduced catalytic activity caused by resistance-conferring mutations in <i>Tetranychus urticae</i> Deok Ho Kwon, Joe Young Choi, Yeon Ho Je, Si Hyuck Lee	17:10-17:20

Room 18

August 24, Friday

Code No.	Presentation Title Authors_Presenting author	Time
O206F01	A novel mechanism of ecdysone biosynthesis regulation in the prothoracic glands of <i>Bombyx mori</i> Masatoshi Ige, Takayoshi Nakaoka, Yutaka Suzuki, Hiroshi Kataoka	09:00-09:10
O206F02	A Chitin Deacetylase-Like protein homologue in the spruce budworm, <i>Choristoneura fumiferana</i> Guoxing Quan, Tim Lead, Fayun Wen, Peter J. Krell, Basil M. Aul	09:10-09:20
O206F03	Structural insight into the functional and inhibitory specificity of an insect chitinolytic $\beta$ -N-acetyl-D-hexosaminidase, a potential pesticide target Tian Liu, Qing Yang	09:20-09:30
O206F04	A novel alternative splicing site of class A chitin synthase from the insect <i>Ostrinia furnacalis</i> Mingbo Qu, Qing Yang	09:30-09:40
O206F05	Molecular cloning of chitinase cDNAs from the spittlebug <i>Popillia costalis</i> (Hemiptera: Cercopidae: Aphrophoridae) Shu-chen Chang, Hsien-tzung Shih, Kuang-Hui Lu	09:40-09:50
O206F06	Tick ecdysteroidogenesis - Identification of ecdysteroid synthetic tissues from a soft tick Mari Horigane Ogihara, Juri Hikiwa, Yutaka Suzuki, DeMar Taylor, Hiroshi Kataoka	09:50-10:00
O206F07	Molecular mechanism of pupal coloration in the silkworm, <i>Bombyx mori</i> Takashi Kiuchi, Takeshi Fujii, Seigo Kuwazaki, Kimiko Yamamoto, Susumu Katsuma, Toru Shimada	10:00-10:10
O206F08	Eicosanoids mediate hemolymph oxidative and antioxidant response in larvae of <i>Galleria mellonella</i> Ender Buyukguzel, Pavel Hyrsl, Kemal Buyukguzel	10:10-10:20
O206F09	Post-feeding diuresis in <i>Rhodnius prolixus</i> : The role of FGLamide-related allatostatins Meer Zandawala, Ian Orchard	10:20-10:30
Coffee/Tea Break		10:30-11:00
O206F10	The unexpected divergence of juvenile hormone function in highly eusocial tropical wasps Hans Kestrup, Klaus Hartfelder, Fabio Santos Da Nascimento, Lynn Ridsdill	11:00-11:10
O206F11	Female-specific wing regression triggered by 20-hydroxyecdysone during pupal-adult transformation in the winter geometrid moth <i>Nyctodes leuvarius</i> (Lepidoptera, Geometridae). Shuhei Niitsu	11:10-11:20
O206F12	Regulatory mechanism of the <i>Drosophila</i> insulin-like peptides gene expression Naoki Okamoto, Takashi Nishimura	11:20-11:30
O206F13	Molecular characterization and gene expression of juvenile hormone binding protein in the Bamboo Borer, <i>Omphisa fuscidentalis</i> Eek-artit Rittachayong, Stephen S. Tobe, Tippawan Singitipoo	11:30-11:40
O206F14	Understanding physiological roles of crustacean cardioactive peptide in the blood-gorging bug, <i>Rhodnius prolixus</i> Dahee Lee, Angela B Lange	11:40-11:50
O206F15	Transcriptional mechanism of Kruppel homolog 1, a repressor of insect metamorphosis, in <i>Bombyx mori</i> Takumi Karyakawa, Chieko Minakuchi, Toshiki Nomiki, Toru Tognata, Michio Yoshiyama, Manabu Kamimura, Kazuaki Mita, Shigeo Imanishi, Makoto Kiuchi, Yukio Ishikawa, Tetsuro Shinoda	11:50-12:00
O206F16	Insulin signaling is involved in nutritional stress response in pea aphids, <i>Acyrtosiphum pisum</i> Meng Zhang, Shan-Shan Guo, Tong-Xian Liu	12:00-12:10
O206F17	Queen pheromone regulates egg production in a termite Yuuka Yamamoto, Kenji Matsura	12:10-12:20
O206F18	Analysis of an innate behavioral sequence by genetic manipulation of a peptidergic signaling cascade Do hyung Kim, Mi-ran Han, Young-joon Kim, Michael E. Adams	12:20-12:30
Lunch		12:30-14:00
O206F19	Osmoregulation in the desert locust <i>Schistocerca gregaria</i> , the role of ion transport peptide. Neil Audsley, David Schooley	14:00-14:10
O206F20	Orcokins are conserved peptides in innervation of the salivary gland and rectal sac of ixodid ticks Ladislav Rallap, Ladislav Simo, Akira Muzaghe, Yoshiaki Tanaka, Mark Slovic, Yoonseong Park, Dusan Zltan	14:10-14:20
O206F21	Comparative proteomic analyses of <i>Anticarsia gemmatilis</i> and <i>Spodoptera frugiperda</i> midguts Fariba Mehrkhou, Mahmoud Chahem, Kachameshi, Octavio Luis Franco	14:20-14:30
O206F22	JH acid methyl transferase genomics and its relevance as insect biopesticidal agent Muralidharan Damodaran, Sinto MS, Raji PT, Omkarur RV, Govindan Bhaskaram	14:30-14:40

# Oral Section 3 Ecology

## 0 301

### Biodiversity

Moderator : Tae-Sung Kwon(Republic of Korea), David J. Lohman(U.S.A.)

#### Room 3

#### August 21, Tuesday

Code No.	Presentation Title Authors, Presenting author	Time
0301TU01	Baseline study on diversity, ecology and spatial characterization of invertebrates in and around Lake Tana Sub-basin, Northwestern Ethiopia Emiru Seyoum Yeshenew	09:00-09:10
0301TU02	Biodiversity of stream insects in the Malaysian Peninsula: Spatial patterns and environmental constraints Salman Abdul Al-Shami, Che Selimah MD Khamir, Abu Perum Ahmad, Madzhanul Rosmahani Madrus	09:10-09:20
0301TU03	Ecological Interactions between non-native and native lady beetles in Maine, the United States Andrei Alyokhin, Christy Leppanen	09:20-09:30
0301TU04	Winter-flooded rice cultivation promotes biodiversity of aquatic insects. - Comparisons under different cultivation management systems in Shiga, Japan. Kosuke Nakanishi, Kota Tami, Boku Kanbana, Daizuke Munakami, Hiroshi Sawada	09:30-09:40
0301TU05	Parasitoid and pollinator networks in an Australian agro-ecosystem Michelle Louise Yates, Nigel Andrew, Jane Memmott	09:40-09:50
0301TU06	Cryptic species and putative Mullerian mimicry conceal the role of biogeography in the diversification of <i>Danaus</i> butterflies David Lohman, Gabriela F. Farías Quijadas	09:50-10:00
0301TU07	Revisiting the ants of Melanesia and the taxon cycle: Historical and human-mediated invasion of a tropical archipelago Evan Phillip Economos, Eli Sarnat	10:00-10:10
0301TU08	Managing riparian margins for biodiversity benefits Jenni Stockan, Glenn Jason, John Broad, Mark Young	10:10-10:20
0301TU09	Roles of insects in the Mesozoic ecosystems of Northeastern China Shu Li, Dong Ren, Hong Fang	10:20-10:30
	Coffee/Tea Break	10:30-11:00
0301TU10	Influence of the river regulation works on ground beetle assemblages in riverbeds of the Yodo River flowing through northern Osaka Prefecture, central Japan Takahiro Fujisawa, Minoru Itoh	11:00-11:10
0301TU11	Effects of plantation management on scarabs feeding on eucalypt and understory grass host plants. Adam Frew, Markus Hegeler, Uffe Nielsen, Scott Nicholas Johnson	11:10-11:20
0301TU12	Diversity, distribution and plant association of thrips belonging to <i>Frankliniella</i> genus in East Africa Subramanian Sengon, Sandra Kuken, Johnson Ogunyomi, Murtala Wanjunjo, Samuel Muchero, Genid Moritz	11:20-11:30
0301TU13	Aquatic insect assemblages in artificial ponds newly created in a Satoyama coppice in southern Osaka, central Japan Masahiro Suzuki, Naoko Hirai, Minami Ishii	11:30-11:40
0301TU14	Interspecific relationships in grassland ground beetle (Coleoptera: Carabidae) assemblages Gabor Pozsgai	11:40-11:50
0301TU15	The Argentine ant, <i>Linepithema humile</i> , interferes with the foraging success of native ant species in a biodiversity hotspot. Natascha Polesa Mothapa, Carolyn Joubert, Theresa Clar Wossler	11:50-12:00
0301TU16	Diversity in the genome of <i>Ephestia cautella</i> Walker (Lepidoptera: Pyralidae) Strains from Southwestern Nigeria Adegoke Victor Oyedokun, Adedapo Amos Omalaye, Babatola Daniel Adesola, Segun Isaac Oyediji, Feyinwa Abiodun Okelana	12:00-12:10
0301TU17	Species richness of canola aphids, ( <i>Brevicoryne brassicae</i> , <i>Myzus persicae</i> and <i>Lipaphis erysimi</i> ) (Homoptera: Aphididae) and its associated natural enemies in different areas of Punjab, Pakistan Muhammad Jafar Arif, Qasim Abbas, Muhammad Ashfaq, Mohammad Dilta Gudi, Saqir Abbas, Hader Karar	12:10-12:20
0301TU18	Decrease of ant diversity due to forest disturbance Tae-sung Kwon, Cheol-min Lee	12:20-12:30
	Lunch	12:30-14:00



Code No.	Presentation Title Authors_Presenting author	Time
O301TU19	Altitudinal pattern of ant diversity in Korea: An empirical test of mid-domain effect and Rapoport's rule, and an alternative suggestion <i>Tae-sung Kwon, Jung-hwa Choi, Cheol-min Lee</i>	14:00-14:10
O301TU20	Study on settled insect communities from restored stream Cheonggyecheon, Seoul <i>Min-seon Kim, Do-yung Choe, Youngdon Ju, Xuan-Vi Le, Mu-ye Qi, Ulsajjang Baysarsaikhan, Bosun Park, Heeja Lee, Yang-seop Bae</i>	14:10-14:20
O301TU21	Diversity and abundance of mesostigmata mites in Arignar Anna zoological park, Chennai, South India <i>Shobana Ganesan, Gunasekaran Chinnapan, Lena Mahalingam, Agnes Deepa Amalanathan, Sharmila Banu Amanullah, Mohana Panneer Selvam</i>	14:20-14:30
O301TU22	Diversity and foraging ecology of pollinators in mango ( <i>Mangifera indica</i> ): An Indian perspective <i>Poluru Venkatarani Reddy, Abraham Varghese, Varun Rajan, Kavitha Bhimesh, Rashmi T.</i>	14:30-14:40
O301TU23	Diversity and distribution of Chironominae (Chironimidae: Diptera) Larvae from Balaghat ranges in Maharashtra, India. <i>Ramrao Jamerdhanrao Chavan, Anant Mahadeo Gokwad, Pragati Rajabhai Bhalsale, Bhagwan Vithoba Sonune</i>	14:40-14:50
O301TU24	Effect of anthropogenic activity on diversity of insects in Nilgiri biosphere reserve, Tamil Nadu, South India <i>Mohana Panneer Selvam, Gunasekaran Chinnapan, Lena Mahalingam, Agnes Deepa Amalanathan, Sharmila Banu Amanullah, Shobana Ganesan</i>	14:50-15:00
O301TU25	Diversity and habitat utilization of Indian peafowl in and around Bharathiar university campus and V.O.C park, Tamilnadu, South India <i>Agnes Deepa Amalanathan, Gunasekaran Chinnapan, Lena Mahalingam, Shobana Ganesan, Mohana Panneer Selvam, Sharmila Banu Amanullah</i>	15:00-15:10
Coffee/Tea Break		15:30-16:00

## O 302

## Climate change effects

Moderator : Nigel Andrew(Australia)

## Room 3

August 21, Tuesday

Code No.	Presentation Title Authors_Presenting author	Time
O302TU01	Effects of temperature stress on tropical insects: A case study with the brown planthopper <i>Nilaparvata lugens</i> (Stål) <i>Jiranan Piyaphangkul, Jeremy Pritchard, Jeffrey S. Bale</i>	16:00-16:10
O302TU02	Environment driven changes in foraging behaviour of hyperparasitoid wasps and their impacts upon the structure of host-parasitoid networks <i>Dominic Charles Henri</i>	16:10-16:20
O302TU03	Assessing insect responses to climate change: How are the fingerprints being detected? <i>Nigel Andrew, Sarah Hill, Matthew Evans, MD Habibullah Bahar, Emma Ridley, Myung-pyo Jung, Chris Fyfe, Michelle Yates, Mohammad Khuroo</i>	16:20-16:30
O302TU04	Bark beetles and fungi: Effects of climate change on symbiont community and stability <i>Diana L. Six, Melissa Friedmann, James Powell, Barbara Bentz</i>	16:30-16:40
O302TU05	Insect herbivory on eucalypts under changing resource allocations and climate change <i>Tara J. Murray, Andrew Gherlenda, David T. Tissue, David S. Ellsworth, Markus Riegler</i>	16:40-16:50
O302TU06	Effect of climatic conditions on population dynamics of dengue mosquitoes ( <i>Aedes aegypti</i> and <i>Aedes albopictus</i> ) <i>Shabeb Nasir</i>	16:50-17:00
O302TU07	Effect of climate change on seasonal foraging activity of termites (Isoptera) <i>Baris Dadij Kasseney, Jing Li, Jipian Wei, Jianchu Mo</i>	17:00-17:10

## O 303

## Multitrophic interaction &amp; invasion ecology

Moderator: Xiaoxia Liu(China)

## Room 21

August 22, Wednesday

Code No.	Presentation Title Authors: Presenting author	Time
O303W01	The genomic response of grapevine to a phloem-feeding insect Alicia Eva Timm, Annette Resvake	09:00-09:10
O303W02	Does the woolly poplar aphid, <i>Phloeomyzus passerinii</i> , manipulate the defense reactions of its host tree? France Dardeau, Françoise Laurans, François Lieutier, Aurélien Sallé	09:10-09:20
O303W03	The effects of wind and bees on Pollen-mediated gene flow from transgenic Bt cotton Jialin Zhu Bohar, Jianqun Wu, Qingwen Zhang, Xiaoxia Liu	09:20-09:30
O303W04	Distribution of <i>Pentalonia nigronervosa</i> , <i>P. caladii</i> , and the Banana Bunchy-Top Virus in Micronesia Julie Anne M. Duay, Rixs H. Miller, George C. Wall, Robert G. Foaritt, Keith S. Pike	09:30-09:40
O303W05	Optimal defense strategy in an extrafloral-nectar bearing plant using physical, chemical and biotic defense traits Akira Yamawa, Nobuhiko Suzuki	09:40-09:50
O303W06	<i>Battus philenor</i> larvae use their frontal projections as host plant detectors Kwuo Kanderi, Daniel R. Papaj	09:50-10:00
O303W07	Gall biology of an Eulophid wasp species associated to flower ovaries of <i>Philodendron bipinnatifidum</i> (Araceae) in Brazil Sergio Jansen, Simone Padua Teixeira, Rodrigo A. Santinelo Pereira	10:00-10:10
O303W08	Host selection features of xylophagous insects and their applications in forest health assessment Jianmin Wang, Xiuming Chen, Zixiang Yang, Juan Liu, Fei Chen, Baogang Sun	10:10-10:20
O303W09	Host plant manipulation by a gall-inducing insect: Regrowth response affects on herbivores abundance Ananto Triyogo, Hironori Yasuda	10:20-10:30
Coffee/Tea Break		10:30-11:00
O303W10	Feeding and growth of cotton armyworm <i>Spodoptera litura</i> Fabricius (Lepidoptera: Noctuidae) in response to cotton varietal characteristics Yang Jung Kwon, Md Ruhul Amin, Dil Afrose Titli	11:00-11:10
O303W11	Routes and processes leading to New World-Old World and North America-South America disjunctions in three widespread spider wasp groups (Hymenoptera: Pompilidae) Juanita Rodriguez, James P. Pitts, Carol D. von Dohlen	11:10-11:20
O303W12	A possible seasonal trade-off between the number of dispersed seeds and long-distance seed dispersal in myrmecochorous sedges, <i>Carex lanceolata</i> and <i>C. tristachya</i> (Cyperaceae) Koki Tanaka, Nobuhiko Suzuki	11:20-11:30
O303W13	Genetic structure and diversity of the populations of an invasive species <i>Cydia pomonella</i> (L.) (Lepidoptera: Tortricidae) in China Maohua Chen, Gislei Men, Jinxian Feng, Yalin Zhang	11:30-11:40
O303W14	Role of hoverfly - plant species interaction in maintenance of pea aphid host races Ilka Vestein, Jonathan Gershenson, Grit Kunert	11:40-11:50
O303W15	Acquisition of plant viruses changes host plant preference of aphid vectors Nilsa A. Bosque-Perez, Laura L. Ingwell, Dhelvasigamani Rajabaskar, Sanford D. Eigenbrode	11:50-12:00
O303W16	Effect of host plant species on bionomic and life history parameters of <i>Anagyrus pseudococci</i> Girault (Hymenoptera: Encyrtidae) a parasitoid of the mango mealybug <i>Rastrococcus iceryoides</i> Green (Homoptera) Chrysantius Tonga, Sunday Elvert, Samira Mohamed, Prem Govender	12:00-12:10
O303W17	The relationship between age and learning ability of <i>Venturia canescens</i> Yasaman Moghaddasi, Hozleil Kishani Farahani, Ahmad Ashouri, Martin Shapiro	12:10-12:20
Lunch		12:30-14:00

## Room 6

August 23, Thursday

Code No.	Presentation Title Authors, Presenting author	Time
O304TH01	Movement of parasitized aphids favour inbreeding avoidance of adult parasitoids <i>Delphine Bourdais, Thierry Hance</i>	09:00-09:10
O304TH02	Nesting habit of <i>Osmia orientalis</i> and its parasitoids <i>Chrysura hirsute</i> <i>Tomoyuki Yokoi, Takato Hirooka, Mayumi Tamara, Ikuo Kandori</i>	09:10-09:20
O304TH03	Why does <i>Oreina cacaliae</i> (Coleoptera: Chrysomelidae) take the decision to fly and leave its host plant? <i>Nicole Marguerite Kalberer Simmen</i>	09:20-09:30
O304TH04	Senescence in immune priming and attractiveness in <i>Tenebrio molitor</i> <i>Tatjana Krama, Jirina Dawid, Inese Kivlenieks, Markus J. Rontala, Indriks Krams</i>	09:30-09:40
O304TH05	Sexual pheromones evolution in insular bumblebees <i>Thomas Leocq, Denis Michez, Audrey Coppen, Simon Delfcourt, Irina Valterova, Jean-Yves Rasplus, Pierre Rasmont</i>	09:40-09:50
O304TH06	How do insects find differently sized realistic odour plumes? Model and experiment <i>Lia Hemerik, Marjolain Lot, Peter Hambäck</i>	09:50-10:00
O304TH07	Effect of migration and mating status of the legume pod borer, <i>Maruca vitrata</i> (Fabricius) (Lepidoptera: Crambidae) on the efficacy of synthetic sex pheromone traps in West Africa <i>Taro Adati, Manuele Tama, Shinsaku Kaji, Mark C. A. Downham</i>	10:00-10:10
O304TH08	Pheromones and body coloration affect mate recognition in <i>Amato</i> genus <i>Yusuke KonDo, Hideshi Nakai, Koji Tsuchida</i>	10:10-10:20
O304TH09	Behavioral and chemical differences among females in the temperate paper wasp <i>Polistes snellen</i> <i>Kazuhisa Yamasaki, Koji Tsuchida</i>	10:20-10:30
	Coffee/Tea Break	10:30-11:00
O304TH10	Changes in apple plant volatiles in response to feeding damage of <i>Pandemis heparana</i> <i>Valentina Giacomuzzi, Sergio Angeli</i>	11:00-11:10
O304TH11	Use of immunomarking to determine foraging patterns of <i>Osmia cornifrons</i> (Radoszkowski) in a cherry orchard <i>Neelendra K. Joshi, David J. Biddinger, Edwin G. Rajotte, Noemi C. Halbrecht, Cassandra Pulg, Kusum J. Naithani</i>	11:10-11:20
O304TH12	Exotic omnivore dung is more attractive to native North American dung beetles than North American herbivore dung <i>William Wyatt Hoback, Sean D Whipple</i>	11:20-11:30
O304TH13	Attractiveness of fermenting baits to tortricid moths in fields in Korea and New Zealand <i>KyungHee Choi</i>	11:30-11:40
O304TH14	Would female oviposition preference affect larval anti-predator defenses? A case study using a polyphagous aquatic lepidopteran species <i>Ling-yiing Tsai, Shen-Hsin Yen</i>	11:40-11:50
O304TH15	Characterization of resistant factors in faba bean ( <i>Vicia faba</i> L.) cultivars against cowpea aphid ( <i>Aphis craccivora</i> Koch.) using Electrical Penetration Graph (DC-EPG) <i>Alan Seffian, Saleh Safer Alghamdi, Abdulrahman Saad Aldawood</i>	11:50-12:00
O304TH15	Functional significance of fruit fly (Diptera: Tephritidae) male attractants and underlying genetic mechanisms <i>Kumaran Nagalingam, Peter Prentis, Solomon Balagawi, Mark Schutze, Anthony R. Clarke</i>	12:00-12:10
	Lunch	12:30-14:00

O 305

Ecology: Genetics, pollution, symbionts &amp; prey-predator interaction

Moderator: James E Russell (U.S.A.), Masakazu Shimada (Japan)

Room 13

August 23, Thursday

Code No.	Presentation Title Authors_Presenting author	Time
O305TH01	Reversal in ecological host race formation in western populations of <i>Rhagoletis pomonella</i> Sheina Blason Sim, Jeffrey Feder, Scott Egan	11:00-11:10
O305TH02	Genetic diversity and population structure of <i>Bactrocera correcta</i> , from China, Thailand, Myanmar and Laos based on mtDNA COI Napparat Buahem, Yu Du, Yi Wu, Yulang Deng, Jing Li, Xiaolong Jiang, Zhihong Li	11:10-11:20

Code No.	Presentation Title Authors_Presenting author	Time
O305TH03	Variation among ancestral populations of a global superpest: The case of the Colorado potato beetle Yolanda H. Chen, Victor Irujo, Jordan Armstrong	11:20-11:30
O305TH04	Expression profiles of esterase genes in environmental adaptation of the brown planthopper, <i>Nilaparvata lugens</i> Stål Hongwei Yao, Yan Gao, Mingming Jiang, Yanyun Bao, Zengrong Zhu, Gongyin Ye, Jia'an Cheng	11:30-11:40
O305TH05	Effects of a plant-accumulated pollutant on the gustatory behaviors, survival and pollination ecology of the honey bee ( <i>Apis mellifera</i> L.) Kristen R. Madun, John T. Trumble	11:40-11:50
O305TH06	Arsenic accumulation, sequestration, and biotransformation in aquatic Diptera Christina Loraine Mogren, Samuel M. Webb, John T. Trumble	11:50-12:00
O305TH07	Significance of termite mounds in heavy metal exposure. Frances Duncan, Megan Field	12:00-12:10
O305TH08	Transgenerational effects of heavy metal exposure on immune defense of the blow fly <i>Protophormia terraenovae</i> Mari Paikiki, Ratanina Kangasuda, Markus J. Rantala	12:10-12:20
O305TH09	An invasive fruit fly benefits from a spatial and behavioural refuge against its introduced egg parasitoid Katharina Merkel, Sunday Ekisi, Thomas S. Hoffmeister	12:20-12:30
	Lunch	12:30-14:00
O305TH10	Effects of leaf shape and host larva on oviposition preference of a tachinid fly, <i>Sturmia bella</i> , between two butterfly host plants Tsiki Tsachida, Norio Hira, Minoru Ishii	14:00-14:10
O305TH11	Predation on a parasitic fly: Cues arising from the host-parasite interaction increase the predation risk Sirpa Raunio, Panu Vahimäki, Raine Kortvi, Jari Koskimäki, Sauli Harkonen, Aija Kaitake, Sauli Luukkainen, Laura Harkonen, Hannu Ylönen	14:10-14:20
O305TH12	Parasitic wasp learning promotes coexistence with hosts' generation cycles in host-parasitoid system: Neural model analysis Masakazu Shimada, Yumiko Ishii, Ken Sasakawa, Shin-ichiro Nakayama	14:20-14:30
O305TH13	Endosymbiotic diversity in <i>Otiorynchus</i> spp. (Coleoptera: Curculionidae) - a multitag 454 pyrosequencing approach Jacqueline Hirsch, Stephan Strahmeyer, Moritz Pfannkuchen, Annette Reineke	14:30-14:40
O305TH14	Adaptive evolution of proviral genome segments from braconid wasps obligatory symbionts Annie Bézier, Severine Jancek, Faustine Louis, Julien Theze, Gabor Gyapay, Karine Musset, Georges Perquet, Catherine Dupuy, Elisabeth Herniou, Jean-Michel Drezen	14:40-14:50
O305TH15	Cytosolic interactions and coadaptation in a <i>Trichogramma-Wolbachia</i> symbiosis James E Russell, Richard Stouthamer, Leonard Nunney	14:50-15:00
O305TH16	The nest of leafcutter bee <i>Megachile unbipennis</i> Smith (Megachilidae) in Bangka Island, Indonesia. Dita Nurjaya	15:00-15:10
O305TH17	Comparison of stream macroinvertebrate communities from two Philippine Islands: A biogeographic study Christine Jewel Cardenas Uy, Perry Sim Ong, Francis Sebastian Magbanua	15:10-15:20
O305TH18	Invertebrates mediate the responses of decomposer fungi to elevated temperature Andrew Donald A'Beir	15:20-15:30
	Coffee/Tea Break	15:30-16:00

- O305TH19** The trial and performance of an international joint study between Korea and Russia for the restoration of *Callipogon Relictus* 16:00-16:10  
Dae-am Yi, Arkady S. Lelej, Andrej K. Kolyar, Alexander V. Kuprin
- O305TH20** Activity of insect fauna during the night, in the palm orchards of central Iraq 16:10-16:20  
Mohammed Zaidan Khalaf
- O305TH21** Comparative studies of behavioural variations of *Apis mellifera* L. species in Nigeria 16:20-16:30  
Akeem Abiodun Oyerinde, Micheal Chidato Dike, Luckun Joseph Barnaiyi, Rabiu Salu Adamu
- O305TH22** Circadian control of oviposition and hatching in *Epilachna vigintioctopunctata* (Coleoptera: Coccinellidae): A laboratory study 16:30-16:40  
Navodita George Maurice
- O305TH23** Distributions and seasonal fluctuations of carabid species (Coleoptera: Carabidae) of hazelnut plantations in Turkey 16:40-16:50  
Gregory Thomas Sullivan, Sebahat K. Ozman-Sullivan, Memis Kesdek
- O305TH24** Effects of the host plant on the biology and life-table parameters of two-spotted spider mite 16:50-17:00  
Mona Maghsoudlou, Mohammad Mahsen Montazeri, Hajar Pakyari

## O306

## Life history &amp; population dynamics

Moderator: James David Jensen Gilbert (Australia), Indriks Krams (Latvia)

## Room 1

August 24, Friday

Code No.	Presentation Title Authors, Presenting author	Time
O306F01	Heritable variation of life-history traits in an adapted spruce budworm population Roberto Quezada Garcia, Eric Bouce	09:00-09:10
O306F02	A test of genetic theories underlying Haldane's Rule with haplodiploid wasps Tosca Koenoets, Louis van de Zande, Leo W. Beukeboom	09:10-09:20
O306F03	Joining forces in defense: Production dynamics of symbiont-mediated antibiotics reveal long term antimicrobial protection for wasp offspring Sabrina Koehler, Martin Kaltenpoth	09:20-09:30
O306F04	Predation selects for lower resting metabolic rates in <i>Tenebrio molitor</i> Indriks Krams, Tatjana Krama, Janina Dauliste, Inese Kliveniece, Markus J. Rantala	09:30-09:40
O306F05	Temperature-dependent, behavioral, and transcriptional variability of a tritrophic interaction consisting of bean, herbivorous mite, and predator Gen-ichiro Arimura, Rika Ozawa, Oyamui Nishimura, Shigenobu Yazawa, Junji Takabayashi	09:40-09:50
O306F06	Biology of coconut black-headed caterpillar, <i>Opisina arenosella</i> Walker (Lepidoptera: Oecophoridae), records of alternative host plant and its natural enemies in Thailand Nampheeng Chomphakhaio, Winit Suvassard, Sapan Uvaichuen, Oraphan Kermasa, Paweena Buchatong	09:50-10:00
O306F07	Slow-growth-intraguild predation: status; when the diet determines your IGP status. Eric Lucas	10:00-10:10
O306F08	Evolution of cooperation: Insights from a tiny haplodiploid insect. James David Jensen Gilbert, Stephen James Simpson	10:10-10:20
O306F09	Winter host selection influences fitness traits in an aphid parasitoid Thiago Oliveira Andrade, Maxime Harve, Yannick Outreman, Liliane Kriespi, Joao van Booren	10:20-10:30
Coffee/Tea Break		10:30-11:00
O306F10	Effect of mating interactions between females and males from different primary host species on host feeding and parasitism by the autoparasitoid <i>Encarsia sophia</i> Liansheng Zang, Changchun Ruan, Fanghao Wan	11:00-11:10
O306F11	Morphological changes correlated with horsehair worm infection in <i>Hierodula formosana</i> Giglio-Tos (Mantodea: Mantidae) Ming-chung Chiu, Chin-gi Hsuing, Wen-jer Wu, Shih-feng Shiao	11:10-11:20
O306F12	Ecological plasticity and genetic diversity of the mango blossom gall midge, <i>Procontarinia mangiferae</i> (Felt), in Reunion Island Paul Amouroux, Frederic Normand, Samuel Nibouche, Helene Delattre	11:20-11:30
O306F13	Are sneaky males making the best of a bad lot or reaping the rewards? Alternative reproductive tactics in the giraffe weevil ( <i>Lasiorhynchus barbicornis</i> ) Christina Painting, Thomas R. Buckley, Gregory I. Hawell	11:30-11:40

Code No.	Presentation Title Authors_Presenting author	Time
O306F14	Gall formation strategies of <i>Idarnes group flavicollis</i> associated to <i>Ficus citrifolia</i> in Brazil Sergio Jansen, Simone Rodua Telavira, Rodrigo A. Santinelo Pereira	11:40-11:50
O306F15	Does overheating risk affect the evolution of cryptic coloration? Kaori Tsurui, Takayoshi Nishida	11:50-12:00
O306F16	Plastic defensive behavior of termite workers depending on social context. Yuki Ishikawa, Kei Tanabe, Hisashi Aonuma, Toru Miura	12:00-12:10
O306F17	Age-related male reproductive investment and female fitness consequences in a moth, <i>Ostrinia scapulalis</i> Aye Thanda Win, Wataru Kojima, Yukio Ishikawa	12:10-12:20
O306F18	Finding signatures of selection imposed on insect by urbanization Sergei Lyssenko, Peter Chang	12:20-12:30
	<b>Lunch</b>	12:30-14:00
O306F19	Mating experience weakens starvation tolerance in the seed bug Togo hemipterus (Heteroptera: Lygaeidae) Chihito Mimura, Kenji Fumoto	14:00-14:10
O306F20	Overwintering Adults of <i>Danaus genutia</i> (Lepidoptera, Nymphalidae: Danaeinae) in South-central Yunnan are in quiescence Chengli Zhou, Zhen Chen, Xiaoming Chen	14:10-14:20
O306F21	Characterization of overwintering sites of brown marmorated stink bug (Hemiptera: Pentatomidae) in natural landscape Doa-hyung Lee, John P. Cullum, Sean A. Wiles, Tracy C. Leskey	14:20-14:30
O306F22	The mechanism of the fecundity reduction in <i>Callosobruchus maculatus</i> caused by <i>Callosobruchus chinensis</i> males Daisuke Kyogaku, Takayoshi Nishida	14:30-14:40
O306F23	Size-induced reproductive constraints in an egg parasitoid Guy Balvin	14:40-14:50
O306F24	Influence of "Candidatus Liberibacter asiaticus" on the biological characteristics of <i>Diaphorina citri</i> Kuwayama Yijing Cao, Fengnian Wu, Guangwen Liang	14:50-15:00
O306F25	Thermal biology and population abundance of Mediterranean and Natal fruit flies, <i>Ceratitis capitata</i> and <i>Ceratitis rosa</i> (Diptera: Tephritidae) in South Africa Casper Nyamukondiwa, Chris W Weldon, John S. Terblanche	15:00-15:10
O306F26	Comparative population growth of the Psocid <i>Liposcelis yunnanensis</i> (Psocoptera: Liposcelidae) on different humidities Muhammad Waqar Hassan, Wei Dou, Jin-Jun Wang	15:10-15:20
O306F27	Life tables and development of <i>Musca domestica</i> (Diptera: Muscidae) on three different diets Nurita Abu Tahir, Abu Hassan Ahmad, Aiman Hanis Jasmy	15:20-15:30
	<b>Coffee/Tea Break</b>	15:30-16:00
O306F28	A comparison of red palm mite populations on banana in the invasive and naturalised range. Bryony Taylor, Sean T Murphy	16:00-16:10
O306F29	Comparative life history and life tables between the two clones of <i>Sitobion avenae</i> (Fabricius) (Hemiptera: Aphididae) on barley yellow dwarf virus infected barley Zuqing HU, Huiyan Zhao, Thomas Thiem	16:10-16:20
O306F30	The glassywinged sharpshooter, <i>Homalodisca vitripennis</i> and the plant pathogenic bacterium, <i>Xylella fastidiosa</i> it vectors: Preparing Australia for invasion Anna Rathe, Geoff M Gurr, Leigh J Piffington	16:20-16:30
O306F31	Difference in larval development and female oviposition preference in host plants between two populations utilizing different plants as larval hosts in an endangered lycaenid butterfly, <i>Zizina emelina</i> Yoshiko Sakamoto, Naoya Hiro, Minoru Ishi	16:30-16:40
O306F32	Effect of host plant on life history and population growth parameters of the invasive mango mealybug, <i>Rastrococcus iceryoides</i> Green (Hemiptera: Pseudococcidae) in Africa Tanga Mbi Chrysantus, Sunday Ekere, Samira Mohamed, Govender Prem	16:40-16:50
O306F33	Modeling temperature-dependent development of pistachio psylla, <i>Agonosoma pistaciae</i> (Hemiptera: Psyllidae) Mohammad Reza Hassani, Abbas Arbab	16:50-17:00
O306F34	Multiple mating and its effect on fitness of <i>Diaeretiella rapae</i> (Hymenoptera: Aphididae) Rashmi Kant, Moya A. Minor, Steve Treweek	17:00-17:10

## Oral Section 4 IPM

0 401

IPM : Population dynamics, dispersal, ecology, new control techniques

Moderator : Jerome Franklin Grant(U.S.A.), Sunday Ekesi(Kenya)

Room 10

August 20, Monday

Code No.	Presentation Title Authors_Presenting author	Time
O401M01	Invasive insect pests of forests in the Southern Appalachians, USA: Assessment and management of multiple pests to enhance forest health <i>Jerame F. Grant, Paris L. Lombdin, Gregory J. Wiggins, James Rusty Rheo</i>	09:00-09:10
O401M02	Biological base of IPM against phytophages on strawberry plantations <i>Sergey Yakovlevich Popov</i>	09:10-09:20
O401M03	Synthetic substrate-borne vibrational signals that elicit Asian citrus Psyllid communicatory and search responses <i>Richard Wendell Mankin, Elizabeth Heatherington</i>	09:20-09:30
O401M04	Assessment of the effect of inflorescence density index of grain amaranth ( <i>Amaranthus</i> Spp.) on <i>Clerus fuscus</i> infestation. <i>Abiola Olufunke Oke, Thomas J. Olufo</i>	09:30-09:40
O401M05	Management strategies for the invasive fruit fly, <i>Bactrocera invadens</i> in Africa <i>Sunday Ekesi, Samia Mohamed, Fathiya M. Khazas, Nguya K. Maniania</i>	09:40-09:50
O401M06	Improved attraction of the strawberry blossom weevil <i>Anthonomus rubi</i> by combining the aggregation pheromone with specific host flower volatile <i>Atle Wibe, Anna-Karin Borg-Karlson, Jerry Cross, Lene Sigsgaard, Jme Liblikas, Helena Bichao</i>	09:50-10:00
O401M07	Stylet penetration activities of tomato/potato Psyllid associated with acquisition and inoculation of <i>Candidatus Liberibacter solanacearum</i> <i>Manohar Sandanayaka, Anamzazu Mareno, Leah Tooman, Natalie Page-Weir, Alberto Foreres</i>	10:00-10:10
O401M08	Oviposition preferences of codling moth, <i>Cydia pomonella</i> (L.) (Lepidoptera: Tortricidae) and an oviposition preference-based susceptibility index for apple cultivars <i>Neelendra K. Joshi, Larry A. Hull, Edwin G. Rayotte, Clayton T. Myers, Greg Krawczyk</i>	10:10-10:20
O401M09	Effects of electron beam on life stages and DNA damage of American serpentine leafminer, <i>Liriomyza trifolii</i> (Burgess) <i>Seung Hwan Yoon, Hyun-na Koo, Gil-hah Kim</i>	10:20-10:30
	Coffee/Tea Break	10:30-11:00
O401M10	Lac insects cultivation, ecological and economical importance of lac agroecosystems in China. <i>Yueqing Chen, Xiaoming Chen</i>	11:00-11:10
O401M11	Going underground - enhanced detection approaches for root feeding grape phylloxera <i>Kevin Steven Powell, Rebecca J. Bruce, David Berchiesi, Simone J. Rachford</i>	11:10-11:20
O401M12	Cockchafer distribution, species diversity and seasonal abundance in gippsland, victoria: Preliminary findings <i>Rebecca Jane Bruce, Kevin Steven Powell, Amy Cosby, Mark Trotter, John Stanley, Greg Falzon, Alan Louey Yen, David Lamb</i>	11:20-11:30
O401M13	Grapevine phylloxera: An integrated approach to management of a phylloxera clonal lineages in Australia <i>Kevin Steven Powell, Ginger A. Korosi, Rebecca Jane Bruce</i>	11:30-11:40
O401M14	Study on occurrence characteristics of <i>Eucryptorrhynchus chinensis</i> (Olivier) (Coleoptera:Curculionidae) in Lingwu, Ningxia <i>Qianqian Yu, Chong Chen, Junbao Wen</i>	11:40-11:50
O401M15	Resistance of onion cultivars to thrips (thysanoptera: Thripidae) and Iris yellow spot virus in Kenya <i>Rael Kayume Birithla, Rama Narka, James Muthami, Subramanian Sevigan</i>	11:50-12:00
O401M16	Dispersal and population genetic structure in codling moth at different spatial scales <i>Eduardo Fuentes Contreras, Esteban Bascoala, Alejandra Bascoala, Claudio Ramirez, Blas Lavandero, Pierre Franck</i>	12:00-12:10
O401M17	Simulation of distributional pattern of leafhopper with GIS <i>Satoshi Kamitani, Shun Kumashiro</i>	12:10-12:20
O401M18	Using thermal tolerance traits to test distribution model outcomes for an invasive mite, <i>Hyalotydeus destructor</i> <i>Matthew Hill, Amy Hoffmann</i>	12:20-12:30
	Lunch	12:30-14:00

Code No.	0	Presentation Title Authors_Presenting author	Time
O401M19		Linking vegetation indexes from remote sensing and long-term prospection data to help in the preventative control of desert locust Cyril Pieu, Valentine Lebourgeois, Ahmed Sallem Benali, Mohamed el Hacen Jaovar, Vincent Bonnaud, Jean-Michel Vassal, Michel Lecoq	14:00-14:10
O401M20		Comparative study based on arthropods biodiversity indicators on paddy fields between integrated pest management and conventional technologies Hagos Tarno, Gatot Mudjiono, Cicilia Nova Ratna Sari	14:10-14:20
O401M21		Impact of mass-rearing and gamma radiation on thermal tolerance of <i>Eldana saccharina</i> Walker (Lepidoptera: Pyralidae). Pride Mudavanhu, Desi Carlomag, Pia Addison	14:20-14:30
O401M22		Biology of exotic predator <i>Cryptolaemus montrouzieri</i> Mulsant on an invasive mealybug, <i>Phenacoccus solenopsis</i> Tinsley under laboratory conditions. Tajwari Sultan Syed	14:30-14:40
O401M23		An empirical predictive model for the flight period of the ambrosia beetle <i>Platypus koryoensis</i> (Coleoptera: Platypodinae) Youngwoo Nam, Dae-sung Won, Jong-ik Kim, Sang-Hyun Koh, Won-il Choi	14:40-14:50
O401M24		Estimates of pistachio yield losses caused in pistachio by pistachio psylla nymphs, <i>Agonosoma pistaciae</i> (Hemiptera: Psyllidae) Muhammad Reza Hassani	14:50-15:00
O401M25		Impact of different pheromone traps installation on the capture and damage intensities of fruit fly species in various host crops Muhammad Didar Gogi, Muhammad Jalal Arif, Muhammad Ashfaq, Anjum Suhail, Sohail Ahmed, Muhammad Ahsan Khan, Muhammad Hamid Bashir, Zain ul Abidin, Muhammad Arshad, Ali Anwar	15:00-15:10
O401M26		Status of mango stone weevil, <i>Sternonchus mangiferae</i> Fab. (Curculionidae: Coleoptera) and its area-wide management leading to control and localized eradication in south India Abraham Verghese, DK Nagaraju, Thippenahalli Nartyanappa Shivananda, Manjunath R Hegde, Anvik Singh Sathu	15:10-15:20
O401M27		Evaluation of some botanical extracts, adult food-baits, oviposition-baits, coloured egg-receptacles and cultural practices and their possible integration for IPM of melon fruit flies. Muhammad Didar Gogi, Muhammad Hamid Bashir, Muhammad Arshad, Zain ul Abidin, Muhammad Ahsan Khan	15:20-15:30
Coffee/Tea Break			15:30-16:00
O401M28		Alternative host plants of <i>Megalurathrips sjostedti</i> and <i>Frankliniella occidentalis</i> in French bean agroecosystems in Kenya Linus Muthuri Giltango	16:00-16:10
O401M29		Biology and influential abiotic environmental variables for the beet leafhopper ( <i>Circulifer tenellus</i> ) in the Columbia Basin of Oregon and Washington Alexandra Murphy, Silvia I. Bandon, Andrew Jensen	16:10-16:20
O401M30		The correlation between artificial night lightings and attraction response of insect Heeja Lee, Yong-ki Kim, Youngdon Ju, Bosum Park, Minsun Kim, Xuan Yi Li, Mu-jie Qi, Ullizjargal Bayarsaikhan, Yang-seop Bae	16:20-16:30
O401M31		A decade with <i>Solenopsis invicta</i> (Hymenoptera: Formicidae): Taiwan's experiences on fire ant control Leik-math Kalle, Cheng-jen Shih	16:30-16:40
O401M32		Biological parameters and feeding efficiency of <i>Chrysoperla carnea</i> on different hosts Jan Mari Muhammad	16:40-16:50
O401M33		Morphometrics and Integrated control of <i>Macrotermes bellicosus</i> (Isoptera: Termitidae) on newly established cocoa plantation in Ibadan, Nigeria Joseph Chukw Anikwe, Feyisara Abiodun Okelana, Kehinde Kemabanta, Winifred Ayinke Makanjuola	16:50-17:00
O401M34		Distribution of potato leafminer fly, <i>Liriomyza huidobrensis</i> (Blanchard) (Diptera: Agromyzidae) and its damage in potato crops in Nepal Rameswar Maharjan, Chadeu Jung, Marc Spärleder, Jürgen Kroschel	17:00-17:10
O401M35		Area wide implementation of integrated pest management in India for cauliflower cultivated in rainy season Desh Bandha Ahuja, M.N. Bhat, R. V. Singh	17:10-17:20
O401M36		Use of <i>Tithonia diversifolia</i> and <i>Metarhizium anisopliae</i> in a lure-and-kill approach for thrips management Saliou Niassy, Ngoya Kalenda Mariama, Ayuka T. Fomhong, Baldwin Torto, Subramanian Sevgan, Sunday Ekeji	17:20-17:30
O401M37		The effect of certain watermelon varieties on the biology of <i>Aphis gossypii</i> Glover (Hemiptera: Aphididae) Yavuz Bayram, Enel Bayhan	17:30-17:40



# 0402

## Natural chemistry

Moderator: Codjo Euloge Tagbe(Benin)

### Room 9

August 23, Thursday

Code No.	Presentation Title Authors, Presenting author	Time
O402TH01	Evaluating alternatives to conventional pest control in Benin Codjo Euloge Tagbe, Rein Haguma, Elisabeth Zannou, Guibert Gbelaou, Jean Marcel Deguenon, Simplice Vodouhe, Damsou Kossou, Arnold van Huij	16:00-16:10
O402TH02	Effects of the essential oils of <i>Lavandula angustifolia</i> Mill and <i>Zataria multiflora</i> Boiss on reproduction and F1 population of <i>Callosobruchus maculatus</i> (F.) Gholamhossain Maravvej, Zahra Golestani Ralat	16:10-16:20
O402TH03	Impact of <i>Lantana camara</i> leaf extracts on development and reproductive bioactivities of <i>Dysdercus koenigii</i> Kamal Kumar Gupta, Sunil Kayasth	16:20-16:30
O402TH04	Green synthesis of silver nanoparticles (AgNps) and azadirachtin for the control of Asian palm weevil <i>Rhynchophorus ferrugineus</i> (Olivier) (Coleoptera: Curculionidae) Duralamy Amerasan, Kadarkar Marugan, Jayapal Subramanian, Kalimuthu Kavendin, Palanisamy Mahesh Kumar, Chellusamy Pameerselvan	16:30-16:40
O402TH05	Screening of some citrus oils against two strains of Khapra beetle ( <i>Trogoderma granarium</i> ) Everts (Coleoptera: Dermestidae) collected from Vehari and Faisalabad districts of Punjab, Pakistan Mansoor Ul Hasan, Muhammad Sagheer, Qurban Ali, Imran Faraz	16:40-16:50
O402TH06	Bio-efficacy of botanicals and bio-pesticides in the management of defoliator complex of <i>Gloriosa superba</i> (Linnaeus) Mariappan Suganthi, Penyaswamy Sakthivel	16:50-17:00
O402TH07	Respiratory toxicity of <i>Thuja orientalis</i> on different life stages of <i>Tribolium castaneum</i> Monireh Tasei, Rana Pooroloube, Nouraddin Shayeesteh, Shahzad Jemipour	17:00-17:10
O402TH08	Evaluation of <i>Solenostemma arge</i> extracts for their potential larvicidal activities against <i>Anopheles arabiensis</i> Patton (Diptera: Culicidae) Amal Elayed Edriss, Abdalla Abdelrahim Satti, Zuhair Aliadi Alabbar	17:10-17:20
O402TH09	Comparative assessment of insecticidal effect of some wood treated with plant extract on termite Sunday Adeniyi Adedantun, Johnson Adeniyi Oluwal, Adeniyi Razak Ajah	17:20-17:30
O402TH10	Toxicological and repellent impact of essential oils of <i>Citrus colocynthis</i> , <i>Citrus pardi</i> , <i>Solanum nigrum</i> and <i>Cuminum cymintum</i> against <i>Trogoderma granarium</i> (Everts) (Coleoptera: Dermestidae) Muhammad Sagheer, Mansoor ul Hasan, Ahsan Ullah Saleem, Bilal Saeed Khan, Fawad Zafar Ahmad Khan, Kazam Ali	17:30-17:40

# 0403

## IPM: Plant Resistance, RNAi, Genomics

Moderator: Deok Ho Kwon(Republic of Korea)

### Room 2

August 21, Tuesday

Code No.	Presentation Title Authors, Presenting author	Time
O403TU01	Deep mining of transcriptome data of four Lepidoptera pests Zhang Zan, Xue Juan, Li Fei	09:00-09:10
O403TU02	Resistance characteristics of different <i>Brassica</i> species to mustard aphid, <i>Lipaphis erysimi</i> Kalt. (Hom.: Aphididae) Gholamhossain Maravvej, Mojtaba Hosseini, Somanesh Roudposhti	09:10-09:20
O403TU03	Adaptation of the brown planthopper to a highly resistant rice variety PTB33 Jedelliza Ferrater, Peter de Jong, Marcel Dicke, Finbarr Hanjari	09:20-09:30
O403TU04	RNA interference in the migratory locust Xianhui Wang, Yuan Luo, Li Kang	09:30-09:40
O403TU05	Screening of lethal genes for feeding RNAi by leaf disc-mediated systematic delivery in <i>Tritychus urticae</i> Deok Ho Kwon, Ji Hyun Park, Si Hyeock Lee	09:40-09:50
O403TU06	Insect resistance to Bt plants: Time to start paying attention? Andrei Alyokhin	09:50-10:00

Code No.	Presentation Title Authors, Presenting author	Time
O403TU07	Sources of resistance in wheat to sunn pest ( <i>Eurygaster integriceps</i> Puton) identified using the focused identification of germplasm strategy (FIGS) Mustapha El Bouhassini, Ken Street, Abdallah Bari, Ahmed Amri, Fatimah Oghbovaya, Miloudi Nachit, Mesut Kiser, Alex Morgounov	10:00-10:10
O403TU08	The shift towards controlling secondary pests on Bt-cotton and the implication thereof for integrated pest management on Bt-cotton Annette Bennett, Neethling du Toit, Tanya Joffe	10:10-10:20
O403TU09	Reiterating the positive influence of surrounding vegetation in insect resistance management of Bt corn in a tropical country like the Philippines Merdelyn Coasi Li	10:20-10:30
<b>Coffee/Tea Break</b>		10:30-11:00
O403TU10	Terrestrial arthropod biodiversity in Bt corn fields: Assessing the impacts of Bt corn on non-target groups in the Philippines with special focus on uncommon or environmental indicator species Ireneo L. Lit, Merdelyn Coasi-Lit, Kristine P. Abern, Verlene Da. San Juan, Nolan Antonio Q. Manalo, Orlando L. Eusebio, Ariel R. Laron, Aimee Lynn A. Barrios-Dupa, Leonila A. Corpus-Ramos	11:00-11:10
O403TU11	Effectiveness of transgenic Bt cotton on the non-target sucking insect pest's community Muhammad Arshad, Anjum Sufail, Muhammad Qadkar Gogi, Muhammad Hamid Bashir, Zain ul Abidin, Muhammad Ahsan Khan	11:10-11:20
O403TU12	Effectiveness of the Bph3 resistance gene against planthoppers in the Philippines Ainara Penabaz	11:20-11:30

## 0404

## Chemical Control I

Moderator: Philippos M Ioannidis (Greece)

## Room 2

August 21, Tuesday

Code No.	Presentation Title Authors, Presenting author	Time
O404TU01	Evaluation of fumigant toxicity of essential oils from three medicinal plants against <i>Callosobruchus maculatus</i> adults (Coleoptera: Bruchidae) Gholamhassan Moravvej, Arzoo Heydarzade, Zahra Golestani-Kalat	14:00-14:10
O404TU02	Monitoring of bifentazate and etoxazole resistance in two-spotted spider mite, <i>Tetranychus urticae</i> Sangeun Park, Hyun-na Koo, Gil-hah Kim	14:10-14:20
O404TU03	DuPont™ Cyazypyr™ insect control (DPX-HGW86, cyantraniliprole); Product attributes that influence effective pest control and crop improvement Isaac Billy Annan	14:20-14:30
O404TU04	DuPont™ Benevia™ (DPX-HGW86, Cyazypyr™, cyantraniliprole): Control of <i>Idioscopus clypealis</i> on mango in the Philippines Oscar Degracia Edralin, Rodelito Flores Macatula, Reginald Aquino Quiboy, Rachel P. Lomibao, Isaac Billy Annan	14:30-14:40
O404TU05	Sulfoxaflor: A Novel insecticide for management of brown planthopper on rice Jim Xinpei Huang, Jim Dripps, Samangwang Somsak, Lakshmiapathi Srinivasulu, Lap Nguyen, Aya Kobayashi, Peng Wang, Jee Hwan Yi, Akisa Yu, John Breen, Jamey Thomas, Jan Babcock, Ikou Shirashi	14:40-14:50
O404TU06	Spinetoram, a new spinosyn insecticide for managing key insect pests of rice Jim Xinpei Huang, Jim Dripps, Samangwang Somsak, Lakshmiapathi Srinivasulu, Peng Wang, Jee Hwan Yi, Akisa Yu	14:50-15:00
O404TU07	Response to Insecticides of spotted wing drosophila from British Columbia, Canada Michael Smirle, Cheryl Zurawski, Brittany Demick, Joan Cosentino	15:00-15:10
O404TU08	Determination of acute toxicity (LD50s) of metaflumizone to <i>Helicoverpa armigera</i> , <i>Spodoptera exigua</i> (Lepidoptera: Noctuidae) and <i>Leptinotarsa decemlineata</i> (Coleoptera: Chrysomelidae) in lab bioassays Philippos M Ioannidis, Zora Zariwoudis, Costas Bozoglu	15:10-15:20
O404TU09	Effect of DuPont Cyazypyr products on control of major pests of bulb vegetable Crops in Asia Billy Annan, Ung Park, Iskandar Zulkarnain, Lu Ren, Yutoshu Tokiwa, Viveet Singh, John Wiles, Hector E Portillo, Juan M Alvarez, Ying Song	15:20-15:30
<b>Coffee/Tea Break</b>		15:30-16:00

- O404TU10** Effect of the extracts of *Embelia ribes* Burm. f. (Myrsinaceae) leaf on a nontarget organism, Lynx spiders: *Oxyopes lineatipes* C.L. Koch (Araneae: Oxyopidae)  
Ondrej Kasalík, Chulakorn Nuansewan, Wannisa Muangmanee, Titiya Pung, Patchanee Vichitbandha 16:00-16:10
- O404TU11** Lethal effects of four insecticides on different developmental stages of *Chrysoperla carnea* Stephens (Neuroptera: Chrysopidae) in laboratory conditions  
Ghulamhossain Maraveji, Javad Karimi, Ali Juyandi, Aida Ayubi 16:10-16:20
- O404TU12** Investigations on the effects of two different plant extracts on the green peach aphid (*Myzus persicae* Sulzer) (Hom.: Aphididae)]  
Pervin Erdogan 16:20-16:30
- O404TU13** Semi-field and field evaluations of spatial repellents for mosquitoes 16:30-16:40  
Daniel Lee Kline
- O404TU14** Immunochemical techniques: Effective tool for pesticide residue detection 16:40-16:50  
Prabha Sharma, Devinder Kaur Kocher
- O404TU15** Studies on the evaluation of new chemistry insecticide (Spinosad) and some plant extracts against *Rhyzopertha dominica* (Fab.) (Bostrichidae: Coleoptera) 16:50-17:00  
Mansoor ul Hasan, Muhammad Sagheer, Qurban Ali
- O404TU16** Influence of DuPont™ Benevia™ (Cyazypyr™, cyantraniliprole) on insect pest management and plant protection in leguminous crops in Asia 17:00-17:10  
Lu Ren
- O404TU17** Effect of *Ferula assafoetida* L. essential oil on some physiological aspects of the common pistachia psylla, *Agonosca pistaciae* under laboratory conditions 17:10-17:20  
Mahshid Samevishi, Hamzeh Izadi, Mohammad Amin Jafari, Hadi Zohdi
- O404TU18** Toxicity of acetamiprid and *Ferula assafoetida* L. essential oil against the common pistachio psylla, *Agonosca pistaciae* under laboratory conditions 17:20-17:30  
Mahshid Samevishi, Hamzeh Izadi, Mohammad Amin Jafari, Hadi Zohdi

## O 405

## Biological control-Natural enemy 1

Moderator : Jeong Joon Ahn(Republic of Korea), Kenneth Llewellyn Pringle(South Africa)

## Room 22

August 21, Tuesday

Code No.	Presentation Title Authors_Presenting author	Time
O405TU01	<i>Gonipterus platensis</i> (Coleoptera: Curculionidae) - Present status and control strategies in colder regions of Portugal Manuela Branco, Ana Raquel Reis, Clara Araujo, Liliana Vilas Boas, Carlos Valente	09:00-09:10
O405TU02	Humidity-controlled cold storage of the predatory mite, <i>Neoseiulus californicus</i> McGregor (Acar: Phytoseiidae), an important natural enemy of spider mites Noureddin Abuelkadi Ghazy, Takeshi Suzuki, Hiroshi Amano, Katsumi Ohgama	09:10-09:20
O405TU03	Dust in apple orchards causes mite outbreaks: Fact or fiction? Kenneth Llewellyn Pringle, Joannita Hirus, Marcel de Vries	09:20-09:30
O405TU04	Are neonicotinoid insecticides which partially replaced organophosphate and carbamate insecticides in U.S. tree fruit safer to native pollinators and biological control? David Biddinger, Neelendra Joshi, Jacqueline Robertson, Edwin Rajotte, Chris Mutlin, Mace Vaughan, James Frazier	09:30-09:40
O405TU05	<i>Phanerotoma philippinensis</i> , a potential parasitoid for managing legume pod borer, <i>Maruca vitrata</i> Sapana Yule, Srinivasan Ramasamy	09:40-09:50
O405TU06	Toxicity of insecticides to <i>Aphelelus mali</i> , the parasitoid of woolly apple aphid David John Rogers, Nandita Sharma, James Thomas Walker	09:50-10:00
O405TU07	Biological characteristic and selection of low toxic of pesticides to native predator, <i>Chrysoperla niponensis</i> (Okamoto) (Neuroptera:Chrysopidae) for the control of mealy bugs at pear Orchard. Eunhye Ham, Jun seok Lee, Jang kyun Park, Young su Lee, Mi yeon Jang	10:00-10:10
O405TU08	Insects can enhance the biocontrol potential of pathogens against weeds: A case study on aquatic weed, waterhyacinth in South Africa Puja Ray, Martin P Hill	10:10-10:20
O405TU09	Temperature effects on development of overwintering <i>Grapholita molesta</i> (Busck) (Lepidoptera: Tortricidae) from Korean apple orchards Lalit Prasad Seth, Jeong Joon Ahn, Chul Eun Jung	10:20-10:30

Coffee/Tea Break

10:30-11:00

Code No.	Presentation Title Authors, Presenting author	Time
O405TU10	Population management of invasive mealbug, <i>Phenacoccus solenopsis</i> (Tinsley) in cotton crop through different modules in Pakistan Ghulam Hussain Abra	11:00-11:10
O405TU11	Diversity and distribution of natural enemies (predators and parasitoid) of bagworms (Lepidoptera: Psychidae) on various host plants in oil palm plantation Yusufyoti Rashid, Che Saimah MD Ravi, Abu Hassan Ahmad, Naor Hisham Hamid	11:10-11:20
O405TU12	Response of cotton mealybug to biological, biochemical and chemical control tactics under semi-field and field conditions Muhammad Mamoon ur Rashid, Mosad Khan Khattak, Khakid Abdullah	11:20-11:30
O405TU13	Orientation and feeding responses of <i>Cotesia plutellae</i> (Kurdjumov) (Hymenoptera: Braconidae) adults to honey and sucrose Ashok Kumar Singh, Kapinder Kumar	11:30-11:40
O405TU14	Biology of <i>Diaphorina citri</i> Kuwayama (Hemiptera: Psyllidae) and parasitism by <i>Psyllaephagus stenopsyllae</i> (Tachikawa) (Hymenoptera: Encyrtidae) in Baluchistan, Iran Behnam Motamedinia, Qodratollah Sabahi	11:40-11:50
O405TU15	Persist action of some toxic pesticides on <i>Trichogramma cacoeciae</i> Marchal (Hymenoptera: Trichogrammatidae) Hayder Abdelgader	11:50-12:00
O405TU16	Effect of artificial nectars on survival of <i>Microctonus aethiopoides</i> (Hym.: Braconidae) parasitoid of <i>Hypera postica</i> (Col.: Curculionidae) Abbas Arbab, Mark McNeil	12:00-12:10
O405TU17	Effect of mass rearing of green lacewing, <i>Chrysoperla carnea</i> Stephens (New.: Chrysopidae) on growth rate index during multiple generations in Mohammad Mahsen Montazeri, Mona Moghsoodlou, Saeed Ghadiri Rad	12:10-12:20
O405TU18	Sustainable management of <i>Spodoptera litura</i> by using <i>Bracon hebetor</i> and selective insecticides Rashed Raseel Khan, Muhammad Ashfaq, Khuram Zia, Muhammad Dildar Gogi, Muhammad Arshad, Sahal Ahmed	12:20-12:30

## O 406

### Chemical control 2

Moderator : Gil-Ha Kim(Republic of Korea)

#### Room 14

August 22, Wednesday

Code No.	Presentation Title Authors, Presenting author	Time
O406W01	Azadirachtin based biopesticides influences insect head proteins in gram pod borer, <i>Helicoverpa armigera</i> Hubner (Lepidoptera: Noctuidae) Dwijendra Singh	11:00-11:10
O406W02	Natural plant compounds as insecticides for management of agricultural and veterinary pests De Villiers Fourie, Schalk van der Merwe Louw, Seef Pretorius	11:10-11:20
O406W03	Usage of insecticide spraying equipment and protective measures by cocoa farmers in Nigeria Ismail Adeniran Aderolu, Uche E. Asogwa, M. Idrisu, I Ndagu, J U Mokuwunye, Folanrin Diapo Babalola, F C. Mokuwunye	11:20-11:30
O406W04	Evaluation of novel acaricide, cyflumetofen for management of tea red spider mite, <i>Oligonychus coffeae</i> Nietner Gautam Chakraborty, Sahita Kumar Senapati	11:30-11:40
O406W05	Insecticidal efficacy of <i>Beauveria bassiana</i> (Balsamo) Vuillemin mixed with diatomaceous earth against <i>Rhyzopertha dominica</i> F. Tahira Riasat, Naveen Aziz Qureshi, Waqas Waqif, Yang Jung Kwan	11:40-11:50
O406W06	Efficacy of safer insecticides against aphid on celery Ravinder Singh Chandel, B. S. Gill	11:50-12:00
O406W07	Coadministration of wax dissolving agents with insecticides: An effective toxicity enhancing approach for the chemical control of adult female and ovipos stages of <i>Phenacoccus solenopsis</i> Muhammad Dildar Gogi, Muhammad Jalal Arif, Muhammad Hamid Basiri, Muhammad Ali Khan, Muhammad Faheem Akhtar, Adeel Mukhtar, Muhammad Nouman	12:00-12:10
O406W08	Pyrifluquinazon: A novel insecticide for managing <i>Bemisia tabaci</i> and transmission of Tomato Yellow Leaf Curl Virus Mariappan Suganthi, Srinivasan Rajagopal Babu, Stan Duffie, Anita Shrestha	12:10-12:20

Code No.	Presentation Title Authors_Presenting author	Time
O406W09	To determine the yield losses, caused by aphids in canola <i>Brevicoryne brassicae</i> , <i>Myzus persicae</i> , <i>Urolepis erysimi</i> under field conditions in organic and inorganic systems of farming. Muhammad Jalal Anif, Qasim Abbas, A. Muhammad [Munir Zargar, Khushnaw Ali, Saad Muhammad, Ishfaq]	12:20-12:30
O406W10	Bio-activity of <i>Secamone alzelii</i> (Schult.) K. Schu, extracts for the management of seed beetles on stored cowpea seeds Jacobs Mobolade Adesina, Tolosa T. Zittoun	12:30-12:40
Lunch		12:30-14:00

## 0407 Biological control-Natural enemy 2

Moderator : Sopon Uraichuen(Thailand)

### Room 22

August 24, Friday

Code No.	Presentation Title Authors_Presenting author	Time
O407F01	Prey suitability, population growth and development of <i>Orius maxidentex</i> Ghauri (Hemiptera: Anthoridae) Aththiya Kaewpradit, Oraporn Neevong, Varan Saebard, Anu-ut Chansungkavong	09:00-09:10
O407F02	Biological control strategies against Lepidopteran pests by using egg parasitoids Elisabeth Tabone	09:10-09:20
O407F03	Biological control against the tomato leafminer, <i>Tuta absoluta</i> , by studying egg parasitoids to improve IPM strategies Hong Do Thi Khanh, Marion Trivett, Jules Seguret, Nicolas Baudry, Myriam Baudry, Catherine Rey, Anais Verrier, Julien Seguret, Nicolas Baudry, Thomas Trivett, Christophe Baudry, Seguret L. Anais, Anne Terenry, Elisabeth Tabone	09:20-09:30
O407F04	Interspecific competition of parasitoids of <i>Bactreora dorsalis</i> (Hendel) Jiahua Chen, Minlin Zheng, Qing Li	09:30-09:40
O407F05	Investigations into diploid males in the <i>Wolbachia</i> -infected parasitoid, <i>Trichogramma kaykai</i> Pinto & Stouthamer (Hymenoptera: Trichogrammatidae) Genet M Tulgetski, Richard Sevillan	09:40-09:50
O407F06	Sugar as nutritional supplement for the zoophytophagous predator <i>Nesidiocoris tenuis</i> : Practical implications Pablo Urbaneja-Bernat, Miquel Àlvaro Vilabona, Iñaki Albaladejo, Rafael Rodríguez, Roberto López, Alberto Urbaneja	09:50-10:00
O407F07	Comparative study of suitable host plants for adult oviposition and hatching ability of the predatory bug, <i>Wollastoniella rotunda</i> (Hemiptera: Anthoridae) Anuchit Chinajariyawong, Tawee Maneevat, Pongsakorn Huanthai, Wiroon Sawangjit	10:00-10:10
O407F08	Effects of temperatures on shelf life of cocoon and adult survival for transportation of <i>Cotesia flavipes</i> (Cameron) (Hymenoptera: Braconidae) Tewee Maneevat, Wiroon Sawangjit, Anuchit Chinajariyawong	10:10-10:20
O407F09	Influence of abiotic factors on the parasitism rate of <i>Platygaster diplosisae</i> , <i>Risbec</i> and <i>Aprostocetus proceras</i> , <i>Risbec</i> on African rice gall midge ( <i>Orseolia oryzivora</i> , Harris & Gagne) Emmanuel Omega Ogah, Emman E. Nwagwu	10:20-10:30
Coffee/Tea Break		10:30-11:00
O407F10	Evaluating the added-value provided by genetic characterization methods in the classical biological control program against <i>Pseudococcus comstocki</i> (Hemiptera: Pseudococcidae) in France Thibaut Malnusa, Alexandre Fléchet, Genevieve Guenée, Jean-Marc Delmas, Catherine Malnusa, Sylvie Bédou, Nicolas Rie, Philippe Kreier	11:00-11:10
O407F11	New host record for the egg parasitoid <i>Anagrus atomus</i> (Hymenoptera: Mymaridae) of the corn leafhoppers, <i>Z. sahrae</i> , <i>E. decipiens</i> , <i>A. decedens</i> , <i>P. striatus</i> (Hemiptera: Cicadellidae) and its population Cetin Mutlu, Erdal Sertkaya	11:10-11:20
O407F12	Choosing predators for biocontrol of Colorado potato beetle in the South Ural Konstantin Kitarov, Maram Udalov, Gulnara Kishkova	11:20-11:30

Code No.	Presentation Title Authors, Presenting author	Time
O407F13	Introduction of <i>Anagyrus lopezi</i> for biological control of the pink cassava mealybug, <i>Phenacoccus manihoti</i> , in Thailand <i>Amporn Winotai, Prapassorn Choeikamhaeng, Rojana Wajaroen, Chalida Unahawutti, Patchareewan Maneesekorn</i>	11:30-11:40
O407F14	Biological control of the millet head miner <i>Heliocheilus albipunctella</i> De Joannis (Lepidoptera: Noctuidae) by augmentative releases of the parasitoid wasp <i>Habrobracon hebetor</i> Say (Hymenoptera: Braconidae) <i>Malick Niango Ba, Ibrahima Baoua, Mamadou Ndiaye</i>	11:40-11:50
O407F15	Biological activities of emamectin benzoate and spinosad against <i>Tragoderma granarium</i> <i>Sohail Malik Akhtar, Mansoor ul Hasan, Muhammad Sagheer, Shahzad Saleem</i>	11:50-12:00
O407F16	Biological characteristics, host stage preference and preference and reproductive fitness of mealybug parasitoid <i>Aenasius bambawalei</i> Hayat (Hymenoptera : Encyrtidae) <i>Zain ul Abidin, M. Jalal Arif, Anjum Suhail, M. Ahsan Khan, Waqas Wakil, M. Dilidar Gogi, Muhammad Arshad, Fiaz Hussain</i>	12:00-12:10
Lunch		12:30-14:00

# Oral Section 5 Pathology & Microbial control

0501

Pathology & microbial control

Moderator : Jae Su Kim (Republic of Korea), Philip Kessler (Switzerland)

Room 10

August 21, Tuesday

Code No.	Presentation Title Authors Presenting author	Time
O501TU01	Genome sequencing and structural characterization of a novel picorna-like virus in a laboratory culture of the endoparasitoid, <i>Pteromalus puparum</i> (Hymenoptera: Pteromalidae) Fei Wang, Di Fang, Gang-yu Ye	09:00-09:10
O501TU02	The MAP kinase Bsls2 controls growth, conidiation, cell wall integrity, and virulence in the insect pathogenic fungus <i>Beauveria bassiana</i> Yongjun Zhang	09:10-09:20
O501TU03	Baculoviruses - a useful tool for IPM strategies Philip Kessler	09:20-09:30
O501TU04	Integrated pest management through sub-lethal synergy between chemical insecticides and entomopathogenic fungi Justin Louis Hatting, Nokutunga Mameh	09:30-09:40
O501TU05	Genetic evidence for a role of prophenoloxidase 1 in the <i>Drosophila</i> immune response Olivier Binggeli, Mickael Poidreux, Bruno Lemaitre	09:40-09:50
O501TU06	The damage efficiency of <i>Metarhizium anisopliae</i> and <i>Beauveria bassiana</i> on the larvae of coffee white stem borer <i>Xylotrechus quadripes</i> (Cherrolat) (Coleoptera: Cerambycidae) under laboratory conditions Arporn Puntongcum, Sa-ngiam Phakpa, Suporn Khachorn, Sridul Chaitrakarn	09:50-10:00
O501TU07	Various infection status and molecular evidence for horizontal transmission and recombination of <i>Walbachia</i> and <i>Cardinium</i> among rice planthoppers and related species Kai-Jun Zhang, Xiao Han, Wen-Chao Zhu, Xiao Liu-Hong	10:00-10:10
O501TU08	Effects of <i>Maruca vitrata</i> multiple nucleopolyhedrovirus on non-target insect pests and natural enemies Srinivasan Ramasamy, Mei-Ying Lin, Yun-Chie Hsu, Chien-Chia Huang	10:10-10:20
O501TU09	Localization of deformed wing virus (DWV) and Korean sacbrood virus (KSBV) in olfactory organs of honeybees Ki-bae Hong, Je Won Jung, Hyung Wook Kwon	10:20-10:30
Coffee/Tea Break		10:30-11:00
O501TU10	Biological control of <i>Plutella xylostella</i> L. and <i>Aedes aegypti</i> L. larvae by using <i>Bacillus thuringiensis</i> Fusants Siri Sumarmi, Sebastian Margono, Damar Tri-Buawardi, Rik Halijati, Samsulhuda, Rita Wahyuni Cahyani	11:00-11:10
O501TU11	White grub pathogens and characterization of scarab species in Mauritius and Tanzania Nirupa Bethary Paray, Nyembere Mjumbura, Mathieu Komenget	11:10-11:20
O501TU12	Effects of entomopathogenic fungal endophytes on mortality, oviposition, emergence and longevity of <i>Liriomyza huidobrensis</i> (Diptera: Agromyzidae) Kamini Senyo Akutse, Ngaya Kalombo Mankoni, Austin Kanyuka-Munyaho, Fredrick Aguma, Nana Agya Gyasi, Sanyal, John	11:20-11:30
O501TU13	Epidemiological studies on tick and mange infestation in camels in Pakistan (Cholistani, Bahawalpur) Fiaz Muhammad Qamar	11:30-11:40
O501TU14	Effect of <i>Xenorhabdus nematophila</i> on <i>Microplitis mediator</i> Haliday Ziyun Wangang, Shao-Shan Peng, Zhao Song, Qiu-Ping Moons	11:40-11:50
O501TU15	Bark beetle, <i>Hypocryphalus mangiferae</i> Stebbing (Coleoptera: Curculionidae: Scolytinae) is a vector of mango Shafiqat Saeed, Assad Masood, Naveed Ali Akhtar	11:50-12:00
Lunch		12:30-14:00

## Oral Section 6 Medical Entomology

### 0 601

#### Medical entomology: Surveillance & ecology

Moderator: Lee William Cohnstaed (U.S.A.)

#### Room 14

#### August 20, Monday

Code No.	Presentation Title Authors_Presenting author	Time
O601M01	Entomological surveillance on a continental scale: A new application of social networking <i>Lee William Cohnstaed, Elin Maki</i>	11:00-11:10
O601M02	Mosquito monitoring program at Honolulu International Airport, Hawaii <i>Jeonhee Mun Hasty, Ping Yang, Peter Oshro, Lynn Nakosone, Garry Gill</i>	11:10-11:20
O601M03	<i>Culex molestus</i> and implications for mosquito-borne disease risk in Australia <i>Nur Faiza Abu Kassim, Cameron E. Webb, Richard C. Russell</i>	11:20-11:30
O601M04	<i>Aedes aegypti</i> productivity and fecal contamination in domestic water storage containers in two villages in Northeastern Thailand <i>Nisa Dada, Nonthasane Vannovong, Razak Seidu, Audrey Lenhart, Thor-Axel Stenstrom, Theeraphap Chareonwinyaphap, Hans Jaeger Overgaard</i>	11:30-11:40
O601M05	African Horse Sickness, its <i>Culicoides</i> (Diptera: Ceratopogonidae) vector and Hartmann's mountain zebra in the south-west Khomas Region, central Namibia <i>Hilbrecht Van Hamburg, Elbe Becker</i>	11:40-11:50
O601M06	Survey of some bionomic factors of <i>Culex tritaeniorhynchus</i> (Diptera: Culicidae) as vector of Japanese Encephalitis (Brain fever) <i>Mohammad Reza Fakoorziba, Fariba Eghbal, V.A. Vijayan</i>	11:50-12:00
O601M07	Survey of some epidemiological factors of visceral leishmaniasis transmitted by <i>Phlebotomus sandflies</i> (Diptera: phlebotomidae) in south of Iran <i>Fariba Eghbal, Pegah Kheradchahi, Mohammad Reza Fakoorziba, Hossein Eghbal</i>	12:00-12:10
O601M08	Goat hoof myiasis caused by <i>Wohlfahrtia magnifica</i> (Diptera: Sarcophagidae) larva in Dashte-arjan region, Fars, Iran <i>Hossein Alipour, Masoud Neghab</i>	12:10-12:20
O601M09	Ecology of malaria vectors in southern part of Iran <i>Abdolreza Rajaeifarad, Mahmood Reza Nakhchiadeh, Hossein Alipour</i>	12:20-12:30
	Lunch	12:30-14:00

### 0 602

#### Control of medical insects

Moderator: Kyusik Chang (Republic of Korea), Il Hwan Kim (U.S.A.)

#### Room 10

#### August 23, Thursday

Code No.	Presentation Title Authors_Presenting author	Time
O602TH01	Toxin peptide produced by <i>Xenorhabdus</i> species with a novel mode of action against yellow fever mosquito larvae, <i>Aedes aegypti</i> <i>Il Hwan Kim, Jerald L. Insign, Que Lan</i>	14:00-14:10
O602TH02	Potent repellents for control of savannah tsetse ( <i>Glossina</i> sp.) <i>Rajinder Salim, Nasser Mubini, Hippolyte Affognon, John Andaka, Peter Muassa, Tibenius Marete, David Mwayi, John Nyirala</i>	14:10-14:20
O602TH03	The use of entomopathogenic fungi in the control of tsetse flies <i>Jean Nguya K., Maniania, Sunday Ekesi</i>	14:20-14:30
O602TH04	Cost efficient control of tsetse flies <i>Johan Esterhuizen</i>	14:30-14:40
O602TH05	New tools for addressing insecticide resistance in malaria vectors <i>Tessa B. Knox, Eljaili Juma, Helen Potes, Janet</i>	14:40-14:50
O602TH06	Implications of larval density-dependence processes on malaria vector control strategies in Kenya <i>Simon Muriu, Tim Coulson, Charles Mwangi, Charles Godfrey</i>	14:50-15:00



Code No.	Presentation Title Authors_Presenting author	Time
O602TH07	Evaluating the potential of the sterile insect technique for malaria control: Relative fitness and mating compatibility between laboratory colonized and a wild population of <i>Anopheles arabiensis</i> Givemore Muthenga, Givemore Muthenga	15:00-15:10
O602TH08	Cow dung, medicinal plants and intermittent irrigation strategy for anopheles mosquito management in Ahero rice paddies Elizabeth Dorothy Kokwaro, Ma Isaid Ge Rem, Michael Bikiaka, Catherine Ogembo	15:10-15:20
O602TH09	Performance of new products against <i>Aedes aegypti/albopictus</i> under laboratory and field conditions: A preparatory approach following the 2011 dengue epidemic in Pakistan Waseem Akram, Ijaz Qureshi, Habib Zahir, Ali Phani, Aqsa Samra, Haseem Akram, Moina	15:20-15:30
Coffee/Tea Break		15:30-16:00
O602TH10	Role of public participation and interventions in dengue management Waseem Akram, Jongbin Lee, Hafiz Akbar, Ali Shau	16:00-16:10
O602TH11	Repellency of cassia bark, Eucalyptus and Star anise oils and their major constituents to <i>Leptotrombidium pallidum</i> (Acari: Trombiculidae) Kyu Sik Chang, E Hyun Sim, Mi Yeoun Park, Dong Gu Song, Dong Keun Lee, Kwang Joen Ahn	16:10-16:20
O602TH12	Histopathological effects of pellictorine on larval midgut epithelium and anal gills toward <i>Aedes aegypti</i> (Diptera: Culicidae) Haribalan Perumathampi, Jun-Ahn Kim, Hyoung Jeon Ahn	16:20-16:30
O602TH13	Insecticide resistance in dengue and malaria vectors and consequences for vector control Vincent Corbel, Sébastien Marcobini, Juan Pinheiro, Edouard Fabrice Chantre, André de Araújo, Ulisses Hanson	16:30-16:40
O602TH14	Sumilar® 0.5G, Promising insecticide for the control of <i>Anopheles gambiae</i> Oscar Ocheng Mbari, Ulrike Föllmer, Stefan Luchau	16:40-16:50
O602TH15	Scientists and public involvement: A consultation on the relation between malaria, vector control and transgenic mosquitoes Christophe Boete	16:50-17:00
O602TH16	Technical basis for deployment of a combination long lasting insecticidal net in areas of pyrethroid resistance Helen Victoria Pates Janet, Tessa B. Know	17:00-17:10

## O 603

## Physiology of medical insects

Moderator: Shih-Feng Shiao (Taiwan)

## Room 8

August 24, Friday

Code No.	Presentation Title Authors_Presenting author	Time
O603F01	Bacteria and fungi species associated with digestive system of <i>Blattella germanica</i> L. collected in spring and autumn from various parts of a public hospital in Mashhad, Iran Gholamhassan Moravvej, Mahdi Karami, Nafiseh Zafar, Saba Chahar, Adnan Mawardi	09:00-09:10
O603F02	Expression profile analysis of detoxification genes in different life stages of <i>Anopheles funestus</i> Riane N. Christian, Nanette Corcoran, Hilary Ramirez, Indira R. Choudhry, Louise L. An-Kretz	09:10-09:20
O603F03	Physiological tolerances and species distribution modelling of two malaria vectors Candice-Lee Lyons, Maureen Corcoran, John S. Terribilino, Steven L. Chou	09:20-09:30
O603F04	Susceptibility of <i>Anopheles barbirostris</i> complex to <i>Plasmodium falciparum</i> and <i>Plasmodium vivax</i> in Thailand Sarwat Thongsathien, Virut Boonru, Anand K. Anand, Anupam S. Sengupta, Veer Chandra	09:30-09:40
O603F05	Possible factors that induce nocturnal activities of blow flies (Diptera: Calliphoridae) Shih-Tsai Yang, Shih-Feng Shiao	09:40-09:50
O603F06	Gregarious oviposition of blow flies (Diptera: Calliphoridae) Shih-Feng Shiao, Shih-Feng Shiao	09:50-10:00
O603F07	Body size measurements as quality indicators in <i>Aedes aegypti</i> mosquitoes destined for field release Heng An Yeap, Nancy Margaret Easterby, Doreen Johnson, Scott Ritchie, Jay Anthony Hoffmann	10:00-10:10

Code No.	Presentation Title Authors, Presenting author	Time
O603F08	Effectiveness of Bti-based product from Bti cells cultivated by using glutamic acid mother liquor, a waste of monosodium glutamate production <i>Loajana Chawanadisai, Nuntaporn Phonsuwan, Panchai Wiriyasamonand, Norong U-Mai</i>	10:10-10:20
O603F09	The effect of blood feeding on gene expression in insecticide resistant <i>Anopheles funestus</i> <i>Bellinda Leo Spillings, Basil Desmond Brooke, Maureen Coetzee, Lizette Koekemoer</i>	10:20-10:30
	Coffee/Tea Break	10:30-11:00
O603F10	Characterization of akirin in the South African malaria vector <i>Anopheles arabiensis</i> , and its importance as a novel tool to serve as a vector control intervention <i>Annette Bennett, Rionn N. Christian, Christine Moritz-Olivier, Lizette L. Koekemoer</i>	11:00-11:10
O603F11	Differential proteomic study of <i>Plasmodium falciparum</i> -infected and non-infected salivary glands of <i>Anopheles gambiae</i> , to a biomarker of infective bites <i>Alexandra Marie, Sylvie Cornelle, Marie Rossignol, Edith Diemette, Martial Severo, Majoeline Tchicoff Tsapi, Vincent Corbel, Fabrice Chandra, Isabelle Marlais, Franck Remoue</i>	11:10-11:20
O603F12	Electric nets and sticky materials for studying oviposition behaviour of gravid malaria vectors <i>Sisay Dugassa, Jenny Lindh, Steve Tort, Florence Oyieki, Steve Lindsay, Ulrike Fittinger</i>	11:20-11:30
O603F13	Development of <i>Plasmodium berghei</i> in <i>Anopheles funestus</i> <i>Te-chang Mike Lo, Lizette Leonie Koekemoer, Maureen Coetzee</i>	11:30-11:40
O603F14	<i>Aedes aegypti</i> and <i>Aedes albopictus</i> breeding receptacles and their association with the number of dengue cases reported <i>Waseem Akram, Jong Jin Lee, Hafiz Azhar Ali Khan</i>	11:40-11:50
O603F15	Population genetic structure of the major malaria vector <i>Anopheles funestus</i> s.s. and allied species in southern Africa <i>Rwang Shik Chol, Lizette L. Koekemoer, Maureen Coetzee</i>	11:50-12:00
O603F16	DNA barcoding of the mosquito genus <i>Culex</i> (Diptera, Culicidae) <i>Yvonne-Marie Linton, Jacques Dubois</i>	12:00-12:10
O603F17	Effect of Ketamine hydrochloride on the development of a forensically important blow fly <i>Chrysomya megacephala</i> (Fab.) (Diptera: Calliphoridae) <i>Devinder Singh, Bhupinderjeet Kaur</i>	12:10-12:20
O603F18	Development of an immuno-epidemiological biomarker for evaluating the exposure to the bites of <i>Aedes aegypti</i> mosquito <i>Emmanuel Elianga Ndille, Doucoure Souleymane, François Mouchet, Damien Georgla, Pape Drame, Herbert Nauka, Nicolas Moiroux, Davothree Misse, Martin Akagbeto, Vincent Corbel, Marie-claire Henry, Fabrice Chandra, Thierry Boleet, Franck Remoue</i>	12:20-12:30
	Lunch	12:30-14:00

## Oral Section 7 Entomology: General

**0 701**

Entomology: General 1

Moderator: Celia Regina Ribeiro da Silva Carlini (Brazil)

Room 21

August 20, Monday

Code No.	Presentation Title Authors_Presenting author	Time
0701M01	Preliminary study on Ketosynthase gene in <i>Paederus Fabricius</i> Zhiping Liu, Anjun Wang	16:00-16:10
0701M02	Synchrotron X-ray microtomography and digital 3D imaging for examining insect morphology Thomas van de Kamp, Tommy das Santos Rêis, Patrick Wagnon, Alexandre Aron, Taka Shimizu	16:10-16:20
0701M03	Origin of the luminescence system in firefly Yuichi Oba	16:20-16:30
0701M04	Formation of germ band in <i>Diplura</i> , with special reference to the differentiation of germ layers (Hexapoda) Keoru Sekiya, Ritsuchiro Machida	16:30-16:40
0701M05	The spruce budworm genome takes flight: Current endeavours and direction in sequencing the <i>Choristoneura fumiferana</i> genome Michel Cussan, Hakim Marabout, Audrey Nicole, Brian Boyle, Jennifer Lachue, Catherine Belzoin, Irena Kukavica-Ibrulj, Daniel Doucet, Christopher Lucarotti, Felix Sperking, Lisa Lumley, Bryan Brimmer, Heather Bird, Vince Nealis, Roger Levesque	16:40-16:50
0701M06	Entomotoxic and membrane-disturbing properties of urease and derived peptides Celia Regina Ribeiro da Silva Carlini, Anne H. S. Martins, Angela Regina Pinheiro, Kátia Adalberto, Cristian Fallmer, Jean-Louis Schwartz	16:50-17:00
0701M07	Differences in egg morphology between coleopteran and lepidopteran stored-product insect pests in relation to tolerance to fumigants Sandipa G. Gautam, George P. Opi, Spencer Webb, Dennis Mwanuzi	17:00-17:10
0701M08	Analysis of a chromosomal region harboring the sex determination locus in the yellow fever mosquito <i>Aedes aegypti</i> Elżbieta Krzywinska, Vladimir Kikura, Marion Maing, Clement de la Chapelle, Aleksandra Holyst, Jaroslaw Krzywinski	17:10-17:20
0701M09	Egg structure and embryonic development of <i>Eucarydia yasumatsui</i> Ashahina (Blattodea, Polyphagidae) Mari Fujita, Ritsuchiro Machida	17:20-17:30

**0 702**

Entomology: General 2

Moderator: Susumu Katsuma (Japan)

Room 20

August 21, Tuesday

Code No.	Presentation Title Authors_Presenting author	Time
0702TU01	Weevil evolution and differential gene expression in the development of the rostrum Steven R. Davis, Paulyn Cartwright, Michael Engel	16:00-16:10
0702TU02	Microsatellite markers in the era of Next-Generation DNA sequencing: Informative and cheap genetic markers for entomological research Thibaut Malausa, André Gélis, Laure Maguic, Stéphanie Fumey, Jean-François Martin	16:10-16:20
0702TU03	Genetic structure of the mealybug <i>Pseudococcus viburni</i> (Hemiptera: Pseudococcidae) populations worldwide Margarita Correa, Eric Lambourn, Tamas Zsengö, Thibaut Malausa	16:20-16:30
0702TU04	Sex determination genes and <i>Wolbachia</i> in Queensland fruit fly, <i>Bactrocera tryoni</i> Jennifer Morrow, Deborah Shearman, Minerva Echeverri, Markus Hegger	16:30-16:40
0702TU05	Clearance of an errantivirus sequence in the production process of trivalent recombinant hemagglutinin (rHA) influenza vaccine, FluBlok® Yoshifumi Hashimoto, Kathryn A. Rizzo	16:40-16:50
0702TU06	Growth performance evaluation and productivity of <i>Bombyx mori</i> (L.) (silkworm) fed with three varieties of <i>Morus alba</i> (L.) Mulberry plant Falake Rachael Ogunfeye, Olusanya Dorcas Popoola	16:50-17:00

Code No.	Presentation Title Authors, Presenting author	Time
O702TU07	Ultrastructure of the antennal sensory organs of two <i>Fannia</i> species Yi-Du Chen, Ming Zhang, Xian-Hua Luo, Ren-Zhi Yang, Qi-Ke Wang, Dong Zhang	17:00-17:10
O702TU08	The molecular genetics of the oily (translucent) mutants in the silkworm, <i>Bombyx mori</i> Linyan Wang, Takashi Kurihara, Yutaka Haruna, Murawaki Li, Susumu Katsumata, Toru Shimada	17:10-17:20
O702TU09	Assembly of empty Israeli acute paralysis virus capsids in baculovirus infected insect cells Ian Jones, Abigail Crome, Junyuan Ren	17:20-17:30

O 703

Entomology : General 3

Moderator : Amol Prabhakar Patwardhan (India)

Room 20

August 24, Friday

Code No.	Presentation Title Authors, Presenting author	Time
O703F01	Olfaction in a vector fruitfly <i>Phortica variegata</i> Siju Kunhi Parayil, Dineshwar Dhanoo, Rajendra P. Liu, Rama C. Gnanasekaran	09:00-09:10
O703F02	Sexual conflict among the lichen tuft moths. Rebecca Bennik	09:10-09:20
O703F03	Interactions between native insects and Australian invasive acacias in Europe Palva Maria-Rosa, Silvio Roberto Ribeiro, Rui Sato	09:20-09:30
O703F04	Enhancement of fruit quality in green pepper through pollination by <i>Hypotrigena gribodoi</i> in small scale farms in western Kenya Kiatoko Nkoba, Sunsh Kumar Ramo, Elhad Muli, James Muske	09:30-09:40
O703F05	Research and utilization of Chinese gall aphids (Hemiptera: Aphididae: Fordini) in China Zixiang Yang, Xiaomeng Chen, Yang Feng, Ping Liu	09:40-09:50
O703F06	Evolution and biogeography of <i>Bombyx mandarina</i> compared with the domesticated mori revealed by Bayesian inference of DNA sequences data from some transposons including mariner-like elements (MLEs) Yumiko Nakajima, Shigeki Nakagome, Shuhei Mano	09:50-10:00
O703F07	Queen selection in three genera of social wasps of tribe Epiponini (Vespidae: Polistinae) Laura Chavarria, Fernando Noll	10:00-10:10
O703F08	ButterflyIndia: Cyber community initiative to document Indian butterflies Vijayakrishnan Srinivas, Amol Prabhakar Patwardhan, Arjun Banerjee	10:10-10:20
O703F09	Progress of eriophyoid mite research in China (Acari: Eriophyoidea) Xiao-feng Xue, Xiao-yin Huang	10:20-10:30
Coffee/Tea Break		10:30-11:00
O703F10	Undergraduates gain experiential learning experience through unique pollination biology research program Sujaya Rao, Sandra Pedersen, Andrew Moldenke	11:00-11:10
O703F11	Biorational control of kalyid pests on oil palms in Papua New Guinea Genet M Tulgetse, Thomas Albert Makiv	11:10-11:20
O703F12	Prevention of incursion of coffee berry borer ( <i>Hypothenemus hampei</i> ) into Papua New Guinea and implementation of national surveillance scheme. Bryanny Taylor, Sean T. Murphy	11:20-11:30
O703F13	Efficient production of knockout crickets using ZFNs and TALENs Takahito Watanabe, Haeun Ohng, Tatsushi Sakuma, Taro Nakamura, Sato Mito, Takashi Yamamoto, Sumihare Nogi	11:30-11:40
O703F14	The change of fauna and soil characteristics for Saemankum reclaimed region in Korea Hong-Yul Seo, Ki Kyung Kim	11:40-11:50
O703F15	An update of traps and targets for surveillance and management of the stable fly, <i>Stomoxys calcitrans</i> , in the U.S.A. Jerome Adkins Haglette	11:50-12:00
O703F16	The role of urban wastewater farms as a common denominator for malaria and diarrhoeal disease transmission Razak Seidu, Arthur Alubukade, Robert Clement Ababakar, Hans Overgaard, Thor Axel Stromstrom	12:00-12:10
Lunch		12:30-14:00



## **General-Poster**

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## Section 1 Taxonomy

August 20-22 (Mon-Wed)

Code No.	Presentation Title Authors, Presenting author
PS1M001	Madagascar's millipede assassin bugs (Hemiptera: Reduviidae: Ectrichiiniinae): Taxonomy, phylogenetics and sexual dimorphism Michael Forthman, Christiane Wendrich
PS1M002	Phylogenetic reconstruction of the <i>Papilio memnon</i> complex suggests multiple origins of mimetic colour pattern and sexual dimorphism Chia-Hsuan Wei, Mathieu Joron, Steve Hines
PS1M003	The evolution of host utilization and shelter building behavior in the genus <i>Parapaymx</i> (Lepidoptera: Crambidae: Acentropinae) Ling-Ying Tsai, Chia-Hsuan Wei, Shen-Hong Yen
PS1M004	Phylogenetic analysis of the spider mite family Tetranychidae Tomoko Matsuda, Norihide Hiramatsu, Mako Murakami, Yoko Kitahara, Tetsuo Gotoh
PS1M005	A pteromalid (Hymenoptera: Chalcidoidea) parasitizing larvae of <i>Aphidoletes aphidimyza</i> (Diptera: Cecidomyiidae) and the first finding of the facial pit in Chalcidoidea Kazunori Matsuo, Junichiro Abe, Kazuko Atamura, Aitschi Yukawa
PS1M006	Population genetics of common Palearctic solitary bee <i>Anthophora plumipes</i> (Hymenoptera: Anthophoridae) in whole species areal and result of its recent introduction in the USA Katerina Cerna, Pavel Muncinger, Jakub Straka
PS1M007	Multiple nuclear and mitochondrial DNA analyses support a cryptic species complex of the global invasive pest, <i>Bemisia tabaci</i> (Gennadius) (Insecta: Hemiptera: Aleyrodidae) Chia-Hung Hsieh, Huang-Yi Wang, Cheng-Mei Chung, Chuan-Hong Chen, Chuan-Cheng Ko
PS1M008	Diverse neuropterans in the Mesozoic Ecosystems of Northeastern China Yangjie Wang, Dong Ren
PS1M009	A developmental approach to the evolution of female wing regression in bagworm moths (Lepidoptera, Psychidae) Shuhei Nitsui
PS1M010	Formation of abdominal appendage-like swellings in the <i>Carabus insulicola</i> embryo (Coleoptera, Carabidae): The possible relationship to the aquatic origin of Adephaga Kazuhiro Nikiura, Yuki Oosawa, Yousuke Tokoro, Yukimasa Kobayashi
PS1M011	South American "jewel acrolepiids": A molecular phylogeny based on 8 genes reveals they represent a novel lineage of <i>Argyresthiidae</i> (Lepidoptera: Yponomeutoidea) Jae-Chan Sohn, Charles Mitter, James Regier
PS1M012	Braconidae and Ichneumonidae (Hymenoptera) associated with corn pests <i>Spodoptera frugiperda</i> (Lep., Noctuidae) and <i>Dichomeris famulata</i> (Lep., Gelechiidae) with descriptions of new species Angelica Penteado Dias, Ivry Frizo Melo, Rafael Braga Silva, Marc Cruz
PS1M013	New contributions to knowledge of pimelinine wasps (Hymenoptera, Ichneumonidae) from Brazil Angelica Penteado Dias, Ana Paula Silva Loffredo
PS1M014	<i>Myrtlemiris</i> , a new genus and new species of Australian plant bugs (Insecta: Heteroptera: Miridae): Systematics, phylogeny and host associations Marino Cheng, Anouk Mutabazi, Germaine Cayss
PS1M015	Morphological antennal sensilla in some importance forensic flies in Saudi Arabia Soud Mohammed Alsaqabi
PS1M016	A revision of the genus <i>Morophagoides</i> Petersen (Lepidoptera, Tineidae) in Japan Yohel Osada, Toshiyuki Hirawata, Makoto Sakai, Shin-ichi Yoshimatsu
PS1M017	Comparative study of hind-wing venation of Cerambycinae (Coleoptera: Cerambycidae) from China Li Chen, Lichao Tian, Zhu Li
PS1M018	Occurrence of an undescribed <i>Metapocyrtus</i> species attacking <i>Hedera helix</i> in Japan (Coleoptera: Curculionidae: Entiminae) Hiroaki Yoshitake
PS1M019	Bagworms (Lepidoptera: Psychidae) of the European part of Russia Julia Lavtsova

Code No.	Presentation Title Authors, Presenting author
P51M020	"What is <i>Tipula</i> ( <i>Nippotipula</i> ) <i>coquillettii</i> ?: Determined by the holotype examination (Diptera: Tipulidae) Takashi Torii
P51M021	Divergence time estimation of fern-feeding sawflies Yulchi Isaka, Toshiyuki Sato
P51M022	Solitary and social halictine bees collected by the Kyushu University expeditions to Central Asia Ryuki Mura, Osamu Tadouchi
P51M023	Discrimination methods of a migratory pest, <i>Spodoptera exempta</i> occurred in Japan for the first time in 2010 from other similar Japanese pests of the genus <i>Spodoptera</i> Guenee (Lepidoptera: Noctuidae) Daisuke Watabiki, Shin-ichi Yoshimatsu, Hiroku Yoshitake, Yuki Baba, Takumi Uesato, Masayuki Shemiatani, Hiroshi Iwasaki, Tetsuya Yuda
P51M024	Genetic structure of <i>Aeolesthes oenochrous</i> (Coleoptera: Cerambycidae) in Taiwan Chien-Hsien Chiu, Wen-Bin Yeh, Man-Miao Yang
P51M025	The phylogeny and host specificity of gall midges (Diptera: Cecidomyiidae) inducing similar spindle-shaped leaf galls on ten <i>Quercus</i> L. (Fagaceae) species in Taiwan Hsin-Yen Tsai, Man-Miao Yang
P51M026	Studies on geometridae larvae (Lepidoptera) and its parasitoids in southeastern Brazil Manoel Martins Dias, Carolina Silva Sousa, Mariano Geraldo, Angelica Pentecosta Dias
P51M027	Phylogeography of four stag beetle groups (Coleoptera, Lucanidae) in the Ryukyu Archipelago, Japan Tadatsugu Hosoya, Kunio Araya
P51M028	Evaluation of the secondary structure of 16S rRNA for molecular phylogeny of Schizophora clade (Diptera: Brachycera) Ana Carolina Martins Junqueira, Daniel Fernando Paula, Ana Maria Lima Azeredo-Espin
P51M029	Taxonomic study on <i>Cryptocercus</i> Scudder Dong Wang, Yanli Che, Zongqing Wang
P51M030	Analyses of the mating behavior of the Japanese <i>Auplopus carbonarius</i> species-complex (Hymenoptera, Pompilidae) Hiroaki Kurushima, Akira Shimizu
P51M031	The taxonomic study of the family Stygothrombiidae (Prostigmata: Acari) Takuya Nagasawa, Hiroshi Abe
P51M032	'Embioptera problem' in relation to an enigmatic taxon Timematodea Netsuo Komoto, Kenji Yukuhira, Shuichiro Tamata
P51M033	Taxonomic overview in marine water mites Pontarachnidae Akira Moto, Hiroshi Abe
P51M034	Summary of four years of DNA barcoding on Pseudococcidae and their parasitoids Thibaut Malausa, Jean-François Germain, Alexandre Beltra, Margarita Correa, Aline Berini, Shaaban Abd-Rabou, Hassan Shalaby, Ernesto Prado, Tamotzu Murai, Giuseppina Poliziani, Emilio Guernieri, Gerard Delvare, M. Bora Kaydan, Geraldine Groussier-Bout, Sylvie Warot, Aurélie Bile, Didier Crochard, Philippe Kremer, Nicolas Ris
P51M035	A comparative survey of proboscis morphology in tiger moths (Lepidoptera: Erebiidae: Arctiinae) Katherine Habanek, Stacey Coy, Susan Weller, Jennifer Zaspel
P51M036	Species of <i>Acizzio</i> (Hemiptera: Psyllidae) as potential new economic pests of solanaceous crops Gary Taylor, Deborah Kent, Alan Yen
P51M037	Genetic variation and phylogeographic inference of alpine ground beetle (Coleoptera, Carabidae, Nebrini) in Taiwan Yi-Min Weng, Wen-Bin Yeh, Man-Miao Yang
P51M038	Morphological description of <i>Ptychocroca galenia</i> Brown & Razowski (Lepidoptera: Tortricidae) immature stages in laboratory conditions Lourdes Peralta, Margarita Correa
P51M039	Revision of Western Japanese <i>Galloisiana</i> (Grylloblattodea): From a standpoint of female body characters Toshiki Uchifune
P51M040	Taxonomic study of the genus <i>Altica</i> (Coleoptera: Chrysomelidae: Alticinae) from Japan, with emphasis on the morphology of the male and female genitalia, and mouth parts Haruki Suenaga



Code No.	Presentation Title Authors, Presenting author
PS1M041	The morphology of the apical portion of abdomen in the Genus <i>Malithodes</i> (Coleoptera: Cantharidae): search for taxonomic characters in male and female Naoki Takahashi
PS1M042	Rediscovery of Ludlow's Bhutan Glory, <i>Bhutanitis ludlowi</i> Gabriel (Lepidoptera: Papilionidae): Morphology, biology and biogeography Motohiro Harada, Kama Wang, Sonam Wang, Minwei Wang, Toshiaki Akai, Yoshiko Sugimoto, Shobu Inamaguchi, Yasuyuki Watanabe, Sherub Rin, Jam Wang, Jee Saeun, Daeup, Jee-won, Saito, Yoshitaka Matsuoka, Taku Uchiyama
PS1M043	World Larinae (Coleoptera: Elmidae) - Taxonomy, phylogeny and distribution Fedor Ciampor Jr, Kristina Liscova, Zuzana, Sanyalova, Zdenek, Zdenek
PS1M044	The preliminary phylogeny of the Epicopeiidae (Lepidoptera, Geometroidea) Chia-Hsuan Wei, Shen-Hong Fan
PS1M045	Asian Species Information Databases KONCHU and AIIC Based on Asian Insects Osamu Tadouchi
PS1M046	Status of Phalangopsidae (Orthoptera, Grylloidea) from the atlantic forest of Brazil: Diversity, distribution and founds of recent expeditions Pedro Guilherme Barrios de Souza Dias, Maria Angel B. Ribeiro
PS1M047	Phylogeny of the neotropical social wasp <i>Synocera</i> (Hymenoptera, Vespidae, Polistinae) Fernando Barbosa Noll, Luis Fernando Traveset, Luis, Nakagaki, Alexandre, Saito
PS1M048	Ants diversity on agroecosystems in the Tak Province, Thailand Chamaiporn Buamas, Chakda Unphaisan
PS1M049	Three new species of the genus <i>Hylaeus</i> (Hymenoptera: Colletidae) from South Korea Huan Chen, Huanli Xu
PS1M050	Revision and phylogeny of Chinese <i>Phaedon latreille</i> and related genera (Coleoptera: Chrysomelidae: Chrysomelinae) Shiqin Ge, Mauro Daccordi, Jui Zhe Lee, Xing Zhi Wang
PS1M051	Taxonomic revision of the family Issidae from Korea (Homoptera: Fulgoromorpha) Mohammad Atikur Rahman, Young Hoon Park, Jong Sang Lee
PS1M052	Taxonomic revision of the family Tettigometridae from Korea (Homoptera: Fulgoromorpha) Mohammad Atikur Rahman, Young Hoon Park, Jong Sang Lee
PS1M053	A molecular rhylogenetic study of the Korean Omaliinae MacLeay (Coleoptera: Staphylinidae) Tae-Ryu Kim, Kee-Jeong Ahn
PS1M054	Generic review of the tribe Athetini (Coleoptera: Staphylinidae: Aleocharinae) in Korea Seung-Gyu Lee, Kee-Jeong Ahn
PS1M055	Phylogeny of the subtribe Homalotina Heer (Coleoptera: Staphylinidae: Aleocharinae) Yoon-Ho Kim, Kee-Jeong Ahn
PS1M056	A review of the coastal Staphylinidae (Coleoptera) in Korea In-Seong Yoo, Kee-Jeong Ahn
PS1M057	Diversity of diving beetles (Coleoptera: Dytiscidae) in Korea Dae-Hyun Lee, Kee-Jeong Ahn
PS1M058	Korean species of the genus <i>Lordithon</i> Thomson (Coleoptera: Staphylinidae: Tachyporinae) Young-Gyu Ban, Kee-Jeong Ahn
PS1M059	A taxonomic review of the subfamily Anteoniinae (Hymenoptera: Chrysidoidea: Dryinidae) from South Korea, with description of a new Species Chang-Jun Kim, Jong-Wook Lee
PS1M060	The distribution of <i>Autocrates maqueti</i> (Coleoptera: Tricentenotomidae) in Korea Jinyoung Park, Kyung Ho Kim, Seung-Hoon Park, Young Hoon Park, Jong Sang Lee, In Young Park, Myoung Jee Kim
PS1M061	A preliminary report of the Family Therevidae in Korea (Diptera: Asiloidea). Dong-Han Kim, Ho-Yeon Hwang
PS1M062	Taxonomic review of the genus <i>Epistrophe</i> (Diptera: Syrphidae) in Korea Hak-Seon Lee, Seoh-Mo-Ho Hwang, In-Hyeon Kim
PS1M063	A preliminary list of the family Tachinidae (Diptera) in Korea Han-saem Lee, Hyi-woo Bae, Myoung-Ho Lee, Sang-ho Lee, Chul-woo Lee, Myoung-Ho Lee

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PS1M064	New records of genus <i>Hyphasis</i> (Coleoptera: Chrysomelidae: Alticinae) from Korea <i>Mi Hyun Kang, Jong Eun Lee</i>
PS1M065	Comparative analysis of <i>Dolichoderus sibiricus</i> Emery (Hymenoptera : Formicidae) between Korea and Japan <i>Eui Jeong Hong, Min Jee Kim, Ki-gyoung Kim, Iksoo Kim, Byung-jin Kim</i>
PS1M066	Taxonomic revision of the leafhopper genus <i>Macropsis</i> Lewis from Korea (Homoptera: Cicadellidae) <i>Jin Hyung Kwon, Yong Jung Kwon</i>
PS1M067	A checklist of the collembolan species from Korea <i>Ji Sup Kwak, Sangkyu Kang, Kyung-Hwa Park</i>
PS1M068	A checklist of the Korean aquatic Collembola <i>Kyung-Hwa Park, Sangkyu Kang</i>
PS1M069	Nematode identification of imported agricultural crops in plant quarantine of Korea <i>Dong Woo Kim, Jae-yang Chun</i>
PS1M070	A new species and two new records of the family Neanuridae from Korea <i>Pil Ja Park, Kyung-Hwa Park</i>
PS1M071	DNA barcode of arthropod pests from pine mushroom from Korea and imported <i>Kwang-Su Lee, Heung-Sik Lee, Eun-Young Yoon, Cheon-Sun Ko</i>
PS1M072	Morphometrics of the final instar exuviae for four cicada species occurring in urban areas of central Korea <i>Hyung-Yun Lee, Seung-Yoon Oh, Yikwoon Jang</i>
PS1M073	A new species of the genus <i>Adoxophyes</i> (Lepidoptera: Tortricidae) on the sweet cherry imported from China under the plant quarantine in Korea <i>Deuk-Soo Choi, Young Mi Park, Jungyoun Ji, Bong-Kyu Byun</i>
PS1M074	Xyleborini Ambrosia Beetles of Melanesia: Taxonomic revision and monograph <i>Jiri Hulcr, Anthony L. Cognato</i>
PS1M075	Open the gates to the diversity of Protura <i>Carol Resch, Gerald Tinseltaler, Nikolaus Urban Szucsich, Daniela Bartei, Guenther Pass</i>
PS1M076	Real-time tracing of AcMNPV infection to <i>Plutella xylostella</i> and the interaction between virus and parasitoid <i>Shu-Jen Tsuan, Roger F. Hou, Suet-Sheng Kuo</i>
PS1M077	New record for the Turkish house fly (Muscidae: Diptera) fauna <i>Canik Onsoy, Ferhat Altunsoy</i>
PS1M078	Determination of the phylogeny of some tabanidae (Diptera : Tabanidae) species using coi gene area <i>Ali Yavuz Kiliç, Sukrom Malcin</i>
PS1M079	Occurrence of grape rust mite, <i>Colepitrimerus vitis</i> , in Korea <i>Myoung Rae Cho, Jong Ho Lee, Taek Jun Kang, Hyung Hwan Kim, Seung Joon Ahn, Seung Wook Jeon, Hae Woong Park</i>
PS1M080	Taxonomic review of the genus <i>Zeiraphera</i> (Lepidoptera, Tortricidae) in Korea <i>Bong-Kyu Byun, Sat-Byal Shin</i>
PS1M081	A preliminary checklist of the family Psychidae (Lepidoptera) in Korea <i>Bong-Kyu Byun, Seung-Jin Roh</i>
PS1M082	Historical review of Gracillariidae (Lepidoptera) in Korea <i>Bong-Kyu Byun, Young-Min Shin</i>
PS1M083	Efficacy of DNA barcodes to identify insect foreign material in foods: A case study using tenebrionids (Coleoptera: Tenebrionidae) <i>Seo Young Cho, Boo Hye Jung, Kyung In Suh, Yeon Jae Bae</i>
PS1M084	Development of species-specific primers for the molecular diagnosis of quarantine species in the genus <i>Tetranychus</i> and <i>Amphitetranychus</i> (Acari: Tetranychidae) <i>Tin Moe Khinings, Jee Kyung Shim, Jong Ho Lee, Won Goo Lee, Kyung Yeoll Lee</i>
PS1M085	Identification of biotypes and secondary endosymbionts of <i>Bemisia tabaci</i> in Korea and relationships with the occurrence of TYLCV disease <i>S. M. Hemayet Jahan, Jungsan Park, Hong-Soo Choi, Kwan-Suk Lee, Chang-Suk Kim, Sukchan Lee, Ryeong-Yeoll Lee</i>
PS1M086	Molecular identification of spiraling whitefly <i>Aleurodicus dispersus</i> (Hemiptera: Aleyrodidae) and prevalence of secondary endosymbionts <i>S. M. Hemayet Jahan, Kwan-Suk Lee, Sukchan Lee, Ryeong-Yeoll Lee</i>

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- PS1M087** Phylogenetic relationships of the insect order Odonata using COI, 16S rRNA, 28S rRNA and EF1- $\alpha$  Sequences  
*Min Jee Kim, Kiyoung So, Jung, Ki Gyoung Kim, Jaeng Won Park, Ju Young Lee, Jumin Jun, Iksoo Kim*
- PS1M088** Taxonomic revision of the genus *Chionea* Dalman (Diptera: Limoniidae) in Korea  
*Yong Jung Kwon, Sang Jae Suh*
- PS1M089** A revision of the Aulacidae (Hymenoptera: Evanioidea) with two new species from Korea  
*Jin-Kyung Choi, Jong-Wook Lee*
- PS1M090** Description of immature stages of *Tipula (Nippotipula) coquillettii* (Insecta, Diptera, Tipulidae) from Korea with notes its ecology  
*Jaeick Jo, Dongsoo Kang*
- PS1M091** Molecular phylogeny and estimates of divergence times of Nymphalidae (Lepidoptera: Papilionoidea) based on concatenated mitochondrial and nuclear genes  
*Xinlong Wan, Min Jee Kim, Iksoo Kim*
- PS1M092** Complete mitochondrial genome of the free-living earwig, *Challia fletcheri* (Dermaptera: Pygidicranidae) and phylogeny of Polyneoptera  
*Xinlong Wan, Min Jee Kim, Iksoo Kim*
- PS1M093** A taxonomic study on the Genus *Linnaemya* Robineau-Desvoidy (Diptera, Tachinidae) in South Korea  
*Jong-Su Lim, N-Kwon Kim, Ho Yoon Han*
- PS1M094** Insect expedition of Vietnam (Butterflies)  
*Eun Young Choi, Jinyoung Park, Ik Je Choi, Yang Kyun Oh, Kyu Teik Park, Yang Seop Bae, Pham Thi Vuong, Jong Kyun Park*
- PS1M095** Insect expedition of Vietnam (Beetles)  
*Ik Je Choi, Jinyoung Park, Eun Young Choi, Yang Kyun Oh, Kyu Teik Park, Yang Seop Bae, Pham Thi Vuong, Jong Kyun Park*
- PS1M096** The insect fauna of Dokdo  
*Yang Kyun Oh, Jinyoung Park, Ik Je Choi, Eun Young Choi, Jong Kyun Park*
- PS1M097** Newly recorded family Heliozelidae from Korea  
*Bong-Woo Lee, Shin-Young Park, Bong-Kyu Byun*
- PS1M098** Confirmation of the fifth mitochondrial DNA lineage of the western honeybee from Sudan  
*Mogbel Ahmed Abdalla El-Niweiri, Fikadi Adam-Omer, Naban Mantz*
- PS1M099** On caligonellid mites (Acari: Trombidiformes: Prostigmata) of Iran  
*Mohammad Bagheri, Mansoureh Abami Azad*
- PS1M100** Mites of family Stigmaeidae (Acari: Trombidiformes) in Bonab archards (Northwest Iran), with one new species of the genus *stigmaeus* Koch, 1836  
*Saeede Sadat Gheblestivand, Mohammad Bagheri, Homed Gharbari*
- PS1M101** Morphological classification of Subfamily Dacinae (Diptera: Tephritidae) in China  
*Qing-Ji, Jiahua Chen, Nannan Zhang*
- PS1M102** On the *Anoplocheilus* Berlese, 1910 (Acari: Pseudoscolecidae) mites of Iran, with description of two new species  
*Eliham zarei, Mohammad Bagheri, Mansoureh Abami Azad*
- PS1M103** New detection of entomopathogenic fungi from the Sudan  
*Abdalla Abdelrahim Sattii, Nalema Eltayeb Garashi*
- PS1M104** The physical therapy taxonomy  
*Hedaya Augustine Falayli, Charles Chemsiso Uluoglu*
- PS1M105** An improved Greengenes taxonomy with explicit ranks for ecological and evolutionary analyses of bacteria and archaea  
*Hedaya Augustine Falayli, Charles Chemsiso Uluoglu*
- PS1M106** Faunal notes of family Arctiidae (Lepidoptera, Noctuoidea) from Korea  
*Ulizjargal Bayersaikhan, Youngdon Jo, Mye-Je Qi, Xuan-Wi Li, Yang-Seop Bae*
- PS1M107** Biotaxonomy of the family Cicadidae from Vietnam (Hemiptera: Auchenorrhyncha)  
*Thai Hong Pham, Yong Jung Kwon*

## Section 2 Physiology

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PS2M108	Different physiological roles of two dopamine receptors in isolated salivary glands of the blacklegged tick, <i>Ixodes scapularis</i> Donghun Kim, Ladislav Simo, Yoonsang Park
PS2M109	Cuticular lipids, water loss and desiccation resistance changes in <i>Z. indianus</i> and <i>D. melanogaster</i> Bhawna Kalra, Ravi Parkash
PS2M110	Molecular characterization of the cDNA encoding chitinase and its expression in oriental fruit fly <i>Bactrocera dorsalis</i> Wen-Jia Yang, Kang-Kang Xu, Wei Dou, Jie-Jun Wang
PS2M111	Molecular mechanisms of acaricides resistance in <i>Panonychus citri</i> (Acari: Tetranychidae) Tian-Ba Ding, Kun Zhang, Wei Dou, Jie-Jun Wang
PS2M112	A quantitative assay for juvenile hormone esters and their precursors using fluorescent tags Crisalejandra Rivera-Perez, Marcelo Nouzawa, Fernando Gabriel Noriega
PS2M113	Effects of thyroxine and potassium iodide on biological and physiological parameters of the mulberry silkworm, <i>Bombyx mori</i> L. (Bombycidae: Lepidoptera) Gadelhak Gaber Gadelhak, Ibrahim A. Rawash, Abir A. Gad, Mamdouh H. Idress
PS2M114	Effects of insulin as a peptide hormone and estradiol as a steroid one on physiological and biological parameters of the silkworm, <i>Bombyx mori</i> L. (Bombycidae: Lepidoptera) Gadelhak Gaber Gadelhak, Ibrahim A. Rawash, Abir A. Gad, Mamdouh H. Idress
PS2M115	Are microsatellite mutation rates higher in Orthopterans? Marie-Pierre Chapuis, Christophe Plomont, Rejane Streiff, Laurence Blondin, Gregory Sward
PS2M116	Phylogeography of the walnut twig beetle, <i>Pityophthorus juglandis</i> Blackman, the insect vector of Thousand Cankers Disease, in the United States Paul Rugman-Jones, Richard Stouthamer, Andrew D. Graves, Steven J. Seybold
PS2M117	Transcriptomic analysis of oocyte resorption after hydric stress in the German cockroach Maria Dolara Piulachs, Anibal de Horna, Alba Herranz, Xavier Belles
PS2M118	Kruppel homolog 1 and metamorphosis in the German cockroach. Expression, post-transcriptional regulation by microRNAs and biological role Jesus Lazano, Raul Montano, Xavier Belles
PS2M119	The microRNA let-7 has a key role in insect vein patterning during wing metamorphosis Mercedes Rubio, Xavier Belles
PS2M120	Progress of subunit composition studies on nicotinic acetylcholine receptors from <i>Nilaparvata lugens</i> , an important rice insect pest Jian Li, Zewen Liu
PS2M121	Molecular characterization and functional study on chitin synthase genes from <i>Locusta migratoria</i> Xiaojian Liu, Kun Yan Zhao, Yaping Guo, Erbo Ma, Jianzhen Zhang
PS2M122	Identification and functional characterization of sex pheromone receptors in two sibling species, <i>Helicoverpa armigera</i> and <i>Helicoverpa assulta</i> Xiao-Jing Jiang, Dan-Dan Zhang, Ling-Qiao Huang, Chen-Zhu Wang
PS2M123	Molecular physiology of epithelial water transport in the lepidopteran hindgut Masaki Azuma, Tomoe Nagao, Mariya Maruyama
PS2M124	Structure activity relationship of a novel juvenile hormone, JHSB3 Tetsuro Shinada, Kanako Kohara, Toyomi Kotaki, Hideharu Numata, Yasufumi Ohfune
PS2M125	Analysis of expression pattern of <i>Bombyx mori</i> gustatory receptors in the tissues and single cells of the taste organs Kazuya Shimomura, Ryosichi Sato
PS2M126	The role of the TOR pathway in the regulation of juvenile hormone synthesis in <i>Aedes aegypti</i> Mertxe Perez-Meda, Crisalejandra Rivera-Perez, Marcelo Nouzawa, Fernando Gabriel Noriega
PS2M127	The photoreponse of the brown-winged green stinkbug, <i>Plautia stali</i> : The daily activity rhythm and phototaxis Masami Shimoda, Terumi Yamaguchi, Takuya Uehara, Toyomi Kotaki
PS2M128	Mode of binding of juvenile hormone binding protein with ligands Takahiro Shiotaki, Rintaro Suzuki, Zui Fujimoto, Wataru Tsuchiya, Mitsuaki Morimoto, Akira Tase, Mitsuhito Miyazawa, Taisukei Yamazaki



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PS2M153	Juvenile hormone titer and JH signaling gene expressions during differentiation of neotenic reproductives in the termite <i>Reticulitermes speratus</i> . Ryota Saiki, Kiyoto Maekawa
PS2M154	Molecular developmental mechanisms responsible for soldier-specific morphogenesis in the nasute termite <i>Nasutitermes takasagoensis</i> Kouhei Toga, Kiyoto Maekawa
PS2M155	Aim-then-shoot type of mechanisms involved in the jumping approach of potato moths to a sex pheromone source Shin Tejima, Tomohiro Ono, Masayuki Sakuma
PS2M156	Diversification of photoreceptors in the compound eye of the birdwing butterfly, <i>Troides aeacus formosanus</i> Pei-Ju Chen, En-Cheng Yang
PS2M157	Functional analysis of epigenetic regulation during embryogenesis of the cricket, <i>Gryllus bimaculatus</i> Yuji Matsuo, Tetsuya Bando, Taro Nakamura, Taro Mita, Sumihare Naji
PS2M158	Expansion of the odorant receptor family and reduction in the gustatory receptor family in the Hessian fly: - Adaptation to a stressful lifestyle? Martin N Andersson, Christer Löfstedt, Hugh Robertson
PS2M159	Changes in the expression of cell cycle markers in moth <i>Spodoptera littoralis</i> tissue after exposure to the juvenile hormone analog- Fenoxycarb Agnieszka Suszczynska, Joanna Kotwica-Rolinska, Piotr Bebas, Marta Anna Polanska
PS2M160	RNA interference in the termite <i>Reticulitermes speratus</i> : A comparison of effect on silencing the hexamerin gene between single 21 nt siRNAs and a long dsRNA Shuji Itakura, Soho Tatsuuma, Toshihiro Teranishi, Kaya Hashizume, Miyu Kaneda
PS2M161	Molecular cloning and analysis of a novel beta-1,3-glucan recognition protein from the ghost moth, <i>Thitarodes pui</i> (Lepidoptera, Hepialidae) Wenjing Wu, Zhiwan Sun, Min Zhang, Chao Song, Guiren Zhang
PS2M162	Influence of pymetrozine on feeding behaviors of four major rice sap-sucking insect pests using electrical penetration graphs Yueping He, Juefeng Zhang, Jiaming Chen, Li Chen, Jintong Shen, Yu Chang Zhu
PS2M163	Positional cloning of the chocolate 2 (ch-2) gene controlling newly hatched larvae colour in silkworm, <i>Bombyx mori</i> Rui Zhang, Chengxiang Hou, Xinglin Mei, Anjiang Tan, Anying Xu, Yongping Huang, Munwang Li
PS2M164	Water physiology of vitellogenic follicles in <i>Bombyx mori</i> Mariya Maruyama, Tomone Nagae, Masaki Azuma
PS2M165	Embryonic development of Zoraptera and its phylogenetic implication Yuta Mashimo, Ryuchiro Machida
PS2M166	Effect of entomopoxvirus infection on growth and metamorphosis of <i>Mythimna separata</i> larvae Hirotoshi Kinjo, Jun Takatsuka, Takahiro Shiozaki, Youshiro Kunimi, Madoka Nakai
PS2M167	Identification of peptidyl factors modulating feeding behavior of the silkworm, <i>Bombyx mori</i> Shinji Nagata, Hiromichi Nagasawa
PS2M168	Ovarian development in females of <i>Triatoma sordida</i> Stal (Hemiptera: Reduviidae: Triatominae) under fasting conditions Claudia Susana Rodríguez, Silvina Andrea Aguirre, Julieta Nattero, Lilian Etelvina Canavoso, Liliana Beatriz Crocco
PS2M169	Effect of the juvenile hormone on resistance against pathogen differs between sexes Markus J. Rantala
PS2M170	Biological activities of juvenile hormone skipped bisepoxide (JHSB3) in the stink bug, <i>Plautia stali</i> Teyami Katakai, Tetsuro Shinada, Kanako Kaitana, Yasufumi Ohfune, Hideharu Numata
PS2M171	Study on microbiota diversity and cellulolytic bacterial community in the hindgut of <i>Holotrichia parallela</i> larvae (Coleoptera: Scarabaeidae) Shengwei Huang, Hongyu Zhang
PS2M172	Molecular diversity and function on host of the intestine bacteria of <i>Bactrocera dorsalis</i> adults Hongxiu Wang, Hongyu Zhang

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PS2M174	In vitro assay using cultured insect cells expressing mosquito acetylcholinesterase mutants predicts development of resistance to novel insecticides by single point mutations at a target amino acid Yu Mukai, Hiroaki Kawamoto, Daigo Kodama, Masato Fukumoto, Jun Kobayashi
PS2M175	The circatidal rhythm of the mangrove cricket persists after removal of the optic lobe Hiroki Takekata, Sakiko Shiga, Hidehiko Numata
PS2M176	Glutathione S-transferase levels in bed bugs in Thailand Sonthaya Thawatsitup, Nut Malaisriat, Apinart Jumsirak, Usavadee Thavara, Manop Watanabe
PS2M177	Role of yeast-like endosymbionts (YLS) of brown planthopper, <i>Nilaparvata lugens</i> (Stål) in the development of resistance to imidacloprid, neonicotinoid insecticide Juefeng Zhang, Na Li, Yueping He, Jianming Chen
PS2M178	Involvement of a circadian system in the circannual rhythm in the varied carpet beetle <i>Anthrenus verbasci</i> Yosuke Miyazaki, Tomoyoshi Nishimura, Tomoyuki Matsuno, Hidehiko Numata
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PS2M180	DNA methylation during the caste determination in the European honeybees, <i>Apis mellifera</i> Hironori Sakamoto, Mito Suzuki, Shinobu Ishii, Tetsuhiko Sasaki
PS2M181	Identification of sex pheromone components in <i>Trissolcus brochymenae</i> females Gianandrea Salerno, Gianfranco Andora, Alessandra Marini, Francesco Piro, Eric Conti
PS2M182	The neuropeptide allatostatin A and its receptor DAR-2 regulate metabolism in <i>Drosophila</i> Julie L. Hentze, Mikael A. Carlsson, Ole Rindgen, Dick A. Russell, Ron F. Reiter
PS2M183	Investigation of lectins as competitors of virus in aphids and potentiality in viral disease transmission Emile Bosque, Jeremy Haste, Eric Haudry, Sophie Vandermoten, Eweline Fritsch
PS2M184	Effect of reduced water supply on aphid physiology: A proteomic approach on peach-aphid interaction Jaime A. Verdugo, Jean-Philippe Lécuyer, Marie-Hélène Sauge, Sophie Vandermoten, Romain C. Chénou, Frédéric Parnis
PS2M185	Termites artificially-fed on unusual diet and resulting enzymatic switches Julien Bauwens, Cédric Tanyue, Christel Marton, Christophe Bessière, Jacques Desautels, Michel Vandenbol, Daniel Portetelle, Philippe Thunart, Edwin De Pauw, Sophie Vandermoten, Eric Haudry, Frédéric Parnis
PS2M186	Cloning and expression of a membrane form guanylyl cyclase, BdmGC-2, in the oriental fruit fly, <i>Bactrocera dorsalis</i> Jen-Dau Liu, Ai-cheng Chang, Huey-tung Tseng, Kuang-Hui Lu
PS2M187	Hemolymph melanization in the silkworm <i>Bombyx mori</i> requires the formation of a high molecular mass complex that metabolizes tyrosine Kevin D. Clark, Michael R. Strand
PS2M188	Effects of temperature and photoperiod on hypermetamorphosis in the been blister beetle, <i>Epicauta gorhami</i> Yoshinori Shintani, Misato Terao, Yuzuru Hirose
PS2M189	Larval development and diapause in the ramie longicorn beetle, <i>Paraglenea fortunei</i> Ryoshei Miyahara, Jun-ya Tajima, Yoshio Saitoh
PS2M190	How are odorant binding proteins involved in olfaction of <i>Tribolium castaneum</i> ? Karthi Murugan, Stefan Dippel, Serdar Angeli, Danilo Palos, Jochen Seiwald, Ernst Wimmer, Stefan Schatz
PS2M191	The effect of insect-virus interactions on the wheat metabolome under increasing atmospheric carbon dioxide Simone Vasilakidis, Jo Luck, Kim Phammy, Kevin Steven Powell, Simone J. Rochford
PS2M192	Juvenile hormone biosynthetic organs in the final larval instar of the red flour beetle <i>Tribolium castaneum</i> Fumiko Ishii, Ken Mura, Toshihiko Tanaka, Chieko Miyakoshi
PS2M193	Insect hormones regulate the expression of diapause hormone receptor gene of the silkworm ( <i>Bombyx mori</i> ) In Vitro Xingjia Shen, Ligang Wang, Shunming Tang, Mengyuan Wang, Chabing Zhao
PS2M194	Nutrition and radiation influence protein expression on oriental fruit fly pupae Chiew Ling Chang, Scott Geib, Thomas A. Casperson, Cynthia E. Aquilino, David Stanley
PS2M195	Effect of plant secondary compounds on detoxification enzymes and oxidoreductases of cereal aphid Tingting Fang, Guilan Pu, Xiaolin Shi, Qinglian Cai

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PS2M197	Electroantennogram and field responses of the rice leaf folder, <i>Cnaphalocrocis medinalis</i> , to sex attractant candidates in Korea Jum-Rae Cho, Jin-Kyo Jung, Kyung-San Choi, Hong-Hyun Park, Ba-Yoon Seo, Ki-Hong Yum
PS2M198	Suppression of pheromone biosynthesis via RNA interference in <i>Plutella xylostella</i> Dae-Weon Lee
PS2M199	Identification of <i>Monochamus alternatus</i> and <i>M. saltuarius</i> , the vectors of pinewood nematode, <i>Bursaphelenchus xylophilus</i> using internal transcribed spacer fragment in Korea. Jin Ah Hong, Chan-Sik Jung, Yi-Sang Moon, Chul-Su Kim
PS2M200	The molecular and behavioral effects of xenobiotic stress on immune and nervous systems of two honey bee species, <i>Apis mellifera</i> and <i>Apis cerana</i> Ji-Hyun Park, Do-ki Park, Hyung-Wook Kwon
PS2M201	Modulation of olfactory sensitivity and behavioral response to diet-induced stress in <i>Drosophila melanogaster</i> Jin-Hee Kim, Ji-Won Jung, Hyung-Wook Kwon
PS2M202	Inhibitory effect of water extracts from <i>Acanthocoris sordidus</i> on oxidative damage by ROS via its antioxidant activities Young-Mi Park, Joe-Hwan Lim, Jong-Eun Lee, Eun-Won Seo
PS2M203	Effect of <i>Hydropsyche kozhantschikovi</i> extracts on oxidative cell and dna damage Young-Mi Park, Joe-Hwan Lim, Jong-Eun Lee, Eun-Won Seo
PS2M204	A microRNA-based screen for novel feeding-related target genes Minjung Shin
PS2M205	Female sex pheromone components of the box tree pyralid, <i>Glyphodes perspectalis</i> in Korea: Field test and development of film type formulation Ji-Kwon Park, Junheon Kim, Sang-Chul Shin
PS2M206	A miRNA-based screen for novel genes involved in olfactory axon targeting Shreelatha Shenay
PS2M207	Why a membrane-anchored chitinase (CHT7) in <i>Tribolium</i> ? Mi-Young Noh, Subbaratnam Muthukrishnan, Karl J. Kramer, Richard W. Beeman, Yatsuyuki Arakane
PS2M208	Temperature-dependent development of <i>Lymantria dispar</i> (Linne) (Lepidoptera: Lymantriidae) Kwang-Sa Lee, Heung-Sik Lee, Dong-Pyo Lyu, Chan-Ki Hong
PS2M209	Feeding behaviors of <i>Cacopsylla pyricola</i> (Homoptera: Psyllidae) and their changing feeding behaviors to insecticides Min-Woo Park, Shin-Hyok Jo, Sae-Hee Kim, Hye-Ri Kwon, Mi-Ja Seo, Yang-Mon Yu, Young-Nam Yoon
PS2M210	Test for ability of degradation of intestinal bacteria of multicolored asian ladybird beetle, <i>Harmonia axyridis</i> (Coleoptera: Coccinellidae) San-Na Oh, Na-Young Jin, Chang-Saen Kwak, You-Kyun Lee, Mi-Jin Jeon, Mi-Ja Seo, Young-Nam Yoon, Yang-Mon Yu
PS2M211	Biochemical characterization of cold-adapted glycosyl hydrolases from the antarctic springtail acquired from <i>Bombus mori</i> Sun-Mee Hong, Hu-Sun Sung, Mee-Hye Kang, Youn-Ho Lee, Jung-Hee Woo, Nyun-Ho Park, Chaang-Gon Kim
PS2M212	Molecular characterization and apoptotic mechanisms of psacothaeasin, a novel knottin-type antimicrobial peptide, from <i>Psacothaea hilaris</i> Jae-Sam Hwang, Bomi Hwang, Aunsyung Lee, Dong-Gun Lee, Eun-Young Yum, In-Woo Kim, Sung-Hee Nam, Seong-Ryul Kim, Mi-Young Ahn
PS2M213	The effects of paralyzation by <i>Bracon hebetor</i> Say (Hymenoptera: Braconidae) on hemolymph enzymes and proteins in larvae <i>Ephestia kuehniella</i> Zeller (Lepidoptera: Pyralidae) Aydin Suzu Tumbilek, Sevgi Bakir, Ebru Soatci, Gulser Toprak, Ulku Cengizler, Tayfun Kaya
PS2M214	Developing a molecular diagnosis key for five common cockroach species Mohammad Ali Oshaghi, S.S.Hatshemi-Aghdam, Fatemeh Mahdaram
PS2M215	TYLCV acquisition influenced the attraction of whiteflies <i>Bemisia tabaci</i> to the green light emitting diodes (LEDs) S. M. Hemayet Jahan, Kwan-Suk Lee, Sukchan Lee, Kyeong-Yeol Lee
PS2M216	Up-regulation of temperature susceptibility in <i>Bemisia tabaci</i> upon acquisition of tomato yellow leaf curl virus (TYLCV) Joseph Carlo A. Pasag, S. M. Hemayet Jahan, Kwan-Suk Lee, Sukchan Lee, Kyeong-Yeol Lee



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- PS2M217** The induction and termination of larval diapause in *Lycaena dispar*  
Seong-hyun Kim, Namjung Kim, Seong-Ana Hwang, Yuntae Do Lee, Hyeonshik Lee, Eunhye Lee
- PS2M218** Cloning and sequence analysis of a GH10 Endo- $\beta$ -1,4-xylanase gene of streptomyces mexicanus DY31, a bacterium in the gut of a mole cricket, *Gryllotalpa orientalis*  
Do Young Kim, Hye Jeong Kim, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee
- PS2M219** Indoor-rearing system of the emma field cricket, *Teleogryllus emma*  
Namjung Kim, Seong-hyun Kim, Seong-Ana Hwang, Yuntae Do Lee, Seok-yeon Bhang, Hyeonshik Lee, Hyeonshik Lee
- PS2M220** Purification and characterization of a  $\beta$ -1,4-mannanase from an intestinal bacterium of *Maecotypa diphyis*, *Parenibacillus* sp. Strain HJ-8  
Hye Jeong Kim, Do Young Kim, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee
- PS2M221** Development of a mycoinsecticide formulation with *Paeclomyces lilacinus* HY-4 for the control of *Tetranychus urticae*  
Zhen Ji, Han-Young Cho, Da Young Kim, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee
- PS2M222** Increase of 30K protein in identified motoneurons by hemolymph results in inhibition of programmed cell death in silkworm, *Bombyx mori* (Lepidoptera, Bombycidae)  
Hwa Young Song, Mi Young Kim, Bora Lee, Hyeonshik Lee
- PS2M223** Transcriptomic study of *Tenebrio molitor* larva that was treated with acholeplasma lysate injection  
Jieun Jeong, Se Won Kang, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee
- PS2M224** Genome sequencing and analysis of *Pieris rapae* granulovirus  
Yang Seok Lee, Se Won Kang, Bihui Shao, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee
- PS2M225** CSP and takeover genes modulate the aggregation behavior in locust  
Wei Guo
- PS2M226** Roles of a chitinase gene (*LmChT10*) in *Locusta migratoria* development  
Daqi Li, Kun Yan Zhu, Sheng Li, Enbo Ma, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee
- PS2M227** Endocrine regulation of the peripheral clock gene expression in an insect model  
Adam Bajgar, David Dolezel, Marcela Buricova, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee
- PS2M228** Common and distinct juvenile hormone signaling pathways regulate metamorphosis and reproduction in hemimetabolous insects  
Adam Bajgar, Vlastimil Smykal, Jan Novak, Marcela Buricova, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee
- PS2M229** A new coelomic gregarine parasite from the ghost moth, *Thitarodes pui* (Lepidoptera: Hepialidae)  
Zixuan Sun, Wenjing Wu, Guoan Zhang
- PS2M230** Proteomic analysis of *Sesamia nonagrioides* brain in diapausing and non-diapausing developed larvae  
Meritxell Perez-Hedo, Isabel Sanchez Lopez, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee
- PS2M231** Molecular cloning and analysis of a novel beta-1,3-glucan recognition protein from the ghost moth, *Thitarodes pui* (Lepidoptera, Hepialidae)  
Wenjing Wu, Zixuan Sun, Min Zhang, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee
- PS2M232** The cabbage moth modulates the adult eclosion time in response to the amplitude of temperature cycle  
Kazuhito Tanaka, Yasuhiko Watanabe
- PS2M233** Effects of knockdown of the adipokinetic hormone receptor on nutritional levels and feeding frequency in the two-spotted cricket *Gryllus bimaculatus*  
Takahiro Kanuma, Nobukatsu Morokita, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee
- PS2M234** Identification and characterization of  $\alpha$ -amylase in the gut of Red Palm Weevil, *Rhynchophorus ferrugineus* (Olivier, 1790) (Coleoptera: Curculionidae)  
Ali R. Bandal, Ali Davatabadi
- PS2M235** Induced transcription profile of cecropin and defensin gene families in vector mosquito, *Armigeres subalbatus*  
Hui-yau Tseng, Wen-Chi Chang, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee
- PS2M236** Temperature dependent changes of chemical components in overwintering and non-overwintering predatory ladybird *Hippodamia variegata* (Coleoptera: Coccinellidae)  
Nayereh Hamed, Saeed Mohammadian, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee, Hyeonshik Lee

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PS2M237	The effect of four different host plants on digestive proteolytic and amylolytic activity of the cotton bollworm, <i>Helicoverpa armigera</i> (Hubner) (Lepidoptera : Noctuidae) Neda Fallahnejad Mojarad, Yaghoob Fathipour, Karim Kamali, Bahram Naseri
PS2M238	Digestive proteolytic and amylolytic activity of <i>Helicoverpa armigera</i> (Lepidoptera : Noctuidae) in response to time, different instars of larvae and cultivar Neda Fallahnejad Mojarad, Yaghoob Fathipour, Karim Kamali, Bahram Naseri, Azadeh Javahi
PS2M239	Effect of different host plants on some biochemical characteristics of digestive proteases of <i>Helicoverpa armigera</i> (Lepidoptera: Noctuidae) Neda Fallahnejad Mojarad, Yaghoob Fathipour, Karim Kamali, Bahram Naseri
PS2M240	Identification and characterization of $\alpha$ -amylase in the Iranian population of the Rose Aphid, <i>Macrosiphum rosae</i> (Linnaeus, 1758) (Hemiptera: Aphididae) Ali Darvishzadeh, Ali Moslemi, Ali R. Bandani
PS2M241	Evaluation of proteolytic activity in <i>Rhynchophorus ferrugineus</i> (Coleoptera: Curculionidae) (Olivier, 1790) and efficiency of synthetic inhibitors in electrophoresis Ali Darvishzadeh, Ali R. Bandani
PS2M242	Characterization of $\alpha$ -amylase in the Italian Locust, <i>Calliptamus italicus</i> (Linnaeus 1758), (Orthoptera: Acrididae) Ali Darvishzadeh, Ali Moslemi, Moslemi, Ali R. Bandani
PS2M243	Identification and characterization of $\alpha$ -amylase in citrus swallowtail, <i>Papilio demoleus</i> (Linnaeus 1758), (Lepidoptera: Papilionidae) Ali Darvishzadeh, S. Qasem Mousavi, Ali R. Bandani
PS2M244	Ecological significance of cooling rates improving the cold hardening of overwintering <i>Hippodamia variegata</i> (Coleoptera: Coccinellidae) Nayereh Hamed, Saeid Mohammadi

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PS3M245	<b>The architecture of Sunggau in Bangka Island, Indonesia - An artificial wild honey bee nest</b> <i>Kila Nurjajaya</i>
PS3M246	<b>Behavioural and physiological differences between the Mediterranean fruit fly, <i>Ceratitis capitata</i> (Wiedemann) and the Natal fruit fly, <i>C. rosa</i> Karsch and how it relates to their distribution</b> <i>Marelize De Villiers, Vaughan Hottelough</i>
PS3M247	<b>Physical and chemical stimuli that affects <i>Dactylopius opuntiae</i> anchorage</b> <i>Adriana Perez-Ramirez, Federica Castrejon-Ayala, Alfredo Jimenez-Perez</i>
PS3M248	<b>Effect of weight and age at mating on <i>Capitarsia decolora</i> reproductive potential</b> <i>Maria Magdalena Collado-Galindo, Patricia Villa Ayala, Gertrudis Sanjurjo, Rosine Alfredo Jimenez Perez</i>
PS3M249	<b>Impact of leaf-miner insects on the primary metabolism of their host-plant: Nanopulating from the inside</b> <i>Melanie Body, Isabelle Mazerle, Jerome Casas, Jean-Philippe Clauzel, Vincent Dardet, Jean-Paul Manjer, David Guez</i>
PS3M250	<b>Cooperation between <i>Wolbachia</i> and leaf-miners to produce "green-islands": Insights into the plant-insect-bacteria interaction</b> <i>Wilfried Kaiser, Elisabeth Huguet, Sylvain Goyet, Frank Deleigne, Fabrice Gauthier, Cedric Roger, Vincent Gauthier, David Giron</i>
PS3M251	<b>The role of <i>Ateocera raptorialis</i> (Hemiptera : Pentatomidae) in the succession of fungal populations within pecan nut (<i>Carya illinoensis</i>) orchards in South Africa</b> <i>Vaughn Richmond Swart, Jaca Soeman, Gertrudis Casas</i>
PS3M252	<b>Greenhouse pests activity patterns</b> <i>Jan Piet Kaas</i>
PS3M253	<b>Effect of different environmental conditions on plant defenses mediating interactions between the Mountain Pine Beetle and its host pine trees</b> <i>Inko Lusebrink, Maya Ewenden, Nadie Erdogan</i>
PS3M254	<b>Comparisons of the parasitism by four indigenous <i>Trichogramma</i> species on the rice striped stem borer, <i>Chilo suppressalis</i> at different temperature and relative humidity regimes</b> <i>Xiaohua Yuan, Changchun Ruan, Liansheng Zeng</i>
PS3M255	<b>Nutritional variations affect the larval behaviour of the spruce budworm (<i>Choristoneura fumiferana</i> (Clem.))</b> <i>Roberto Quezada Garcia, Daragh Harris, Fawad Naqvi, Eric Bousc</i>
PS3M256	<b>Allopatric distribution and diversification without changing diet in a bryophyte-feeding basal moth lineage (Lepidoptera: Micropterigidae)</b> <i>Yume Imada, Atsushi Kowakita, Makoto Kato</i>
PS3M257	<b>Determination of the maternal effect of <i>Aspidiotus nerii</i> Bouche (Hemiptera: Diaspididae) by using life table</b> <i>Ismael Karaca, Senay Dag, Alime Bayraktar, Mehmet Salih Selim</i>
PS3M258	<b>Life Tables Variability: With a mathematical discussion of the application of the jackknife technique to the estimation of the variance of net reproductive rate</b> <i>Yu-Bing Joyce Huang, Han Chi</i>
PS3M259	<b>Effect of host plant on feeding, biological and morphological parameters of <i>Liriomyza huldobrensis</i> Blanchard (Diptera: Agromyzidae)</b> <i>Caroline A. Roth, Adeniran Chabir-Olaye, Kami K.M. Elabbe, Amel L. Dargat, Ismail El Tahir</i>
PS3M260	<b>Population dynamics and 'outbreaks' of Diamondback moth, <i>Plutella xylostella</i>, in Guangdong province, China: Climate or the failure of management?</b> <i>Zhenyu Li, Myron Philip Zalucki, Xia Fang</i>
PS3M261	<b>Effects of cold storage on survival, predation and reproduction of pre-wintering <i>Harmonia axyridis</i> (Pall)</b> <i>Changchun Ruan, Wenmei Du, Liansheng Zeng</i>
PS3M262	<b>Transmission rate of rice stripe virus by <i>Loewophax striatellus</i> from different geographical population</b> <i>Fang Liu, Qing qing Gui</i>
PS3M263	<b>Effect of temperature on the developmental period, survival and adult longevity of <i>Sesamia nonagrioides</i> (Lepidoptera: Noctuidae)</b> <i>Stefanos S. Andreadis, Nikolaos K. Kargakou, Panagiotis A. Mloupas, Nikolaos A. Mloupas, Sotiris</i>

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PS3M264	Cold adaptation coupled with population expansion during the ice age in the pollinating wasp <i>Wiebesia pumilae</i> (Hymenoptera: Agaonidae) of <i>Ficus pumila</i> Huang-Yi Wang, Chen-Ga Huang, Sui-Wen Kang, Fyssao Ché Ché, Ho-Huei Lee, Shih-Lun Chen, Hsi-Yu Zheng, Wen-Jer Wu
PS3M265	Transplanting large potted trees: A factor involved in the range expansion of the pine processionary moth, <i>Thaumetopoea pityocampa</i> Christelle Robinet, Charles Edouard Lambert, Jérôme Rousselle, Daniel Sauvard, Jacques Gareaux, Franck Goussard, Alain Roques
PS3M266	Predator's non-consumptive effects on herbivores influence herbivore-induced plant responses Shigeaki Mirano, Shunjiro Utsunomiya, Takayuki Ohgushi
PS3M267	Inferring the difference of moth fauna composition in subtropical alpine forests - A case study in Hohuanshan Mountain Range, Taiwan Wei-Chun Chang, Hsu-Jung Lin, Li-Chen Shih, Shypher Wu
PS3M268	Effect of genital spines on male fitness in the West Indian sweet potato weevil Norikuni Kumano, Takashi Kikuchi, Kenji Shioyama, Haruki Tsuruta
PS3M269	Boldness, mate choice and bacterial resistance in the field cricket <i>Gryllus integer</i> Raine Kortet, Petri Ruuskanen, Anssi Vainikka, Jouni Laakso
PS3M270	Variation in supercooling capacity of <i>Tribolium confusum</i> (Coleoptera: Noctuidae), <i>Oryzephilus surinamensis</i> (Coleoptera: Silvanidae) and <i>Trogoderma granarium</i> (Coleoptera: Dermestidae) Stefania S. Andreola, Christos G. Sponoulas, Panagiotis A. Illopoulos, Michalis Savoglou, Soultani
PS3M271	Characterization of an atypical tree-aphid interaction model: <i>Phloeomyzus passerinii</i> (Signoret) (Hemiptera: Aphididae) on the stem of different poplar genotypes Sophie Pinet, Arnaud Amélie, Aurelien Sallé, Françoise Lacroix, Stéphanie Balthazard, Dronnet, François Eleuter
PS3M272	Effect of temperature on development and growth of <i>Propylea japonica</i> and <i>Harmonia axyridis</i> reared on <i>Megoura japonica</i> Shi-Ze Zhang, Hong-Wei Shih, Jing-Xian Lu, Fan Zhang
PS3M273	Foraging decisions of insect parasitoids under the threats of intraguild predation Yoshitaka Nakashima
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PS3M275	Visual and chemical cues attracting rednecked cane borer, <i>Agrilus ruficollis</i> , to primocanes Soo-Hoon Samuel Kim, Linton E. Trumble, Barbara Lewis, Doreen T. Johnson
PS3M276	Oviposition strategy of the winter cherry bug in response to egg parasitism risk Yuji Nakajima, Tetsuya Nakamura, Kenji Fujisaki
PS3M277	Differential responses to predator cues between two mosquito species breeding in different habitats Shin-ya Ohba
PS3M278	The distribution and diversity of butterfly (Lepidoptera) assemblages in King Saba Dalindyebo (KSD) Local Municipality, Eastern Cape, South Africa Augustine Suh Niba, David N. Ntshong
PS3M279	Collective decision making during house hunting in the small-colony ant <i>Myrmecina nipponica</i> Adam L. Cronin
PS3M280	Host plant preference for nesting by the Japanese foliage spider, <i>Chelocanthium japonicum</i> (Araneae: Miturgidae) Yutaka Hironaka, Hiroshi Abe
PS3M281	Effects of plants growth promoting rhizobacteria (PGPR) and fertilization on three Brassicaceae species and growth performance of <i>Spodoptera litura</i> Yusuf S. Siripant, Shou-Yi Hsu
PS3M282	Consequence of bio-diversity of aquatic organisms in paddy fields: Influence of two aquatic organisms on rice plant growth Takayuki Tsukamoto, Shuichi Taniguchi, Satoru Ito, Hiroshi Koyama
PS3M283	Symbiotic gut protists are not harbored in termite queens and kings with mature reproductive organs Keisuke Shimada, Osamu Kikuchi, Ayano Mochizuki
PS3M284	Structure and function of the large pronotal horn of the sand-living anthicid beetle <i>Mecynotarsus tenuipes</i> Ryota Hashimoto, Fumio Nagaike

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- PS3M286** Males kill their mating partner in a mass-reared population of the sweetpotato weevil *Cylas formicarius*  
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- PS3M287** Seasonal monitoring of the incidence and flight activity of the groundnut leaf miner (*Approaerema* spp.) in 5 sites in South Africa  
Mekhasi Buthelesi, Godfrey Zhorore, Desmond Corling
- PS3M288** Predicting the effect of climate change on community structure and function: an assessment using grassland thrips  
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- PS3M289** Adaptive significance of homing behavior in male scoliid wasps (Hymenoptera: Scoliidae)  
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- PS3M290** Plant host differences in the genus *Cossus* (Cossidae): insights from mechanical tests and molecular phylogeny  
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- PS3M291** Elucidating factors by which *Orius* spp. is attracted and arrested to Okra  
Hajun Rim, Masayoshi Uefune, Riko Ogasawara, Akio Nakatsu, Junji Takahayashi
- PS3M292** Historical fires on grasslands in central Japan and its causation to distributions of grassland species of bumblebees and endangered butterflies  
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- PS3M293** The mating system using volatile and substrate-born sex pheromones in a polyphagous solitary parasitoid wasp, *Itoplectis naranyae*  
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- PS3M294** Effect of bush burning on the egg parasitoid, *Trichogramma chilonis* Ishii (Hymenoptera: Trichogrammatidae) of the endangered butterfly, *Shijimiaeoides divinus* barine (Leech) (Lepidoptera: Lycaenidae)  
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- PS3M296** Changes of the land use and decline of the endangered butterfly, *Shijimiaeoides divinus* barine in Azumino, Japan  
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- PS3M297** Effect of grazing intensity on species diversity of butterfly communities  
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- PS3M298** Effects of jasmonate and salicylate induced defense in wheat on grain aphid, *Sitobion avenae* (Hemiptera: Aphididae)  
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- PS3M299** Phenotypic and genetic differences among exotic herb *Solidago altissima*: How do they respond to reassociation with the exotic insects?  
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- PS3M300** A survey on oviposition behavior of *Trichogramma brassicae*  
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- PS3M301** Olfactory learning and memory duration of *Wolbachia* infected *Trichogramma brassicae*  
Hossein Kishani Farahani, Ahmad Arsanjani, Amir Shapour, Sajad Hossein Ghahramani, Amir Khatami, Yasaman Maghaddasi
- PS3M302** Endophytic bacteria associated to sharpshooters, insect vector of *Xylella fastidiosa*: Potential of symbiotic control  
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- PS3M303** Take-off behavior of *Cnaphalocrocis medinalis* (Guenee) (Lepidoptera: Pyralidae) in field conditions and its relation to temperature, illuminance and wind speed  
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- PS3M304** Evaluation of mericid diets for rearing *Scyphophorus accupunctatus* (Coleoptera: Curculionidae)  
Ma. Elena Valdes-Estrada, Lucio Alfonso Turi, Alfredo Jimenez-Perez, Fabio Gutierrez, Osvaldo Riera C. Hernandez-Perez
- PS3M305** Seed predation process of *Megostigmus transversalis* (Torymidae) in *Schinus terebinthifolius* (Anacardiaceae) in Brazil  
Sergio Jansen, Simone Padua Tonello, Patricia A. Saito, Andreia
- PS3M306** Different uses of plant semiochemicals in host location strategies of two "microtype" parasitoid flies  
Ayako Tabeta Ichiki, Gang Thi Thu Ho, Eric Blumberg, Joseph R. R. Jr, Junji Takahashi, Nobuo Nakatsuka

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PS3M307	Trade-offs between pupal melanism and life-history traits in <i>Spodoptera exigua</i> Mo Wang, Shi Liu
PS3M308	The effect of larval density on development of the coconut hispine beetle, <i>Brontispa longissima</i> (Gestro) (Coleoptera: Chrysomelidae) Mika Murata, Dong Thu Dung, Shun-ichiro Takano, Ryoko Tabata Ichiki, Satoshi Nakamura
PS3M309	Factors associated with damage to blueberry fruits by <i>Drosophila suzukii</i> Hirotoshi Kinjo, Yoshihisa Kumai, Takuya Ban, Madoko Nakai
PS3M310	Aster Yellows phytoplasma strain Witches Broom alters plant development to manipulate plant-insect interactions Allyson Marie MacLean, Heather Kingdom, Akiko Sugio, Saskia Hogenhout
PS3M311	Differential pesticide susceptibility explains replacement of <i>Neoseiulus womersleyi</i> by <i>N. californicus</i> in Japanese pear orchards Masumi Hanawa, Koichi Goka, Tetsuo Gotoh
PS3M312	Stage-specific defensive strategies of three mantid species, <i>Tenodera aridifolia</i> , <i>Hierodula patellifera</i> , and <i>Statilia maculata</i> , against a natural enemy Hiroshi Watanabe, Eio Yano
PS3M313	Phytoseiid mite species composition in Japanese peach orchards estimated using quantitative sequencing David Wari, Shoji Sanada, Yoko Kohno, Saori Genie
PS3M314	Sexual behavior, chemical communication, and reproductive isolation in <i>Proeulia auraria</i> Baker (Lepidoptera: Tortricidae) Tomislav Curkovic, Yuri Cueva, Luis Riey-García, Jan Bergmann, Carolina Balvesteros
PS3M315	Flexible food-searching in the parasitic wasp, <i>Cotesia vestalis</i> Saichi Kugimiya, Masayoshi Uelluna, Takeshi Shimoda, Junji Takabayashi
PS3M316	Effect of alternating temperature on life table parameters and predation capacity of phytoseiid spider mite predators Dominiek Vanjansbeka, Lien De Schrijver, Thomas Spronghert, Bruno Gobin, Luc Tirry, Patrick De Clercq
PS3M317	Development, survival and reproduction of <i>Harmonia axyridis</i> (Pallas) (Coleoptera: Coccinellidae) after its eggs exposure to high temperature stress Shi-ze Zhang, Zhu Cao, Tong-Xian Liu, Fan Zhang
PS3M318	Climate warming increased fitness of the cicada, <i>Cryptotympana facialis</i> , by synchronizing its hatching time with the rainy season Minoru Maruyama, Hirotatsu Numata
PS3M319	Macrodiplosis (Diptera: Cecidomyiidae) in Japan and Korea together with information on their ecological traits and gall induction on <i>Quercus</i> (Fagaceae) Wanggyu Kim, Kiyoko Matsunaga, Noohsan Gyootoku, Tsuneo Minami, Kazumi Matsuo, Junichi Yukawa
PS3M320	Effects of barley chromosome addition to wheat on feeding preference and nymphal development of the migratory locust <i>Locusta migratoria</i> (Orthoptera: Acrididae) Atakoto Takada, Shunji Suematsu, Seiji Tanaka, Kanako Kawasato, Yutsumi Ogihara
PS3M321	Male-killing <i>Wolbachia</i> and mitochondrial selective sweep in a migratory African insect Robert Iain Graham, Kenneth Wilson
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PS3M451	Utilization of <i>Anthophora plumipes</i> (Hymenoptera, Apidae) for pollinating various flowering plants inside the closed conditions Radha Devkota Adhikari, Pyochi Miyonaga
PS3M452	Origins of virulence: Genetic mechanisms of virulence inheritance in soybean aphid ( <i>Aphis glycines</i> ) biotypes. Jacob Wenger, Andrew Michel
PS3M453	Information theory and insect ecology: Read before you apply Pavel Drozd, Ales Dolny, Petr Kocarek
PS3M454	Faunistic data and global warming: Misleading approach or helpful information? Pavel Drozd, Ales Dolny, Petr Kocarek
PS3M455	Study of wintering stock of cabbage flies Bekzod Murodov
PS3M456	Foraging cycle of Asiatic honeybee <i>Apis cerana</i> in relation to qualitative and quantitative variations in floral rewards of some plants Dharm Pal Abrol, Mumukshyareddy Shankar Reddy
PS3M457	Pyrosequencing reveals dominance of <i>Arsenophonus</i> , <i>Buchnera</i> , and <i>Wolbachia</i> in bacterial communities of an invasive aphid Raman Bansal, Andy Michel
PS3M458	Age-stage, two-sex life table of <i>Brontispa longissima</i> (Gestro) (Coleoptera: Hispididae) feeding on four palm plant varieties Tao Jia, Ya-ying Lin, Qi-mi Jin, Nai-bo Weng, Zheng-qiang Peng

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PS3M459	Two-sex life table analysis of population characteristics of <i>Codra cautella</i> Walker (Lepidoptera: Pyralidae) on dry and semi-dry date palm varieties of Iran Nouraddin Profshayesteh Shayesteh
PS3M460	Seasonal monitoring of the major okra foliage pests and their associated predators complex at El-Gorair Scheme in Merowe Locality, Northern Sudan Nazar Abdalla Ahmed Baki, Abdalla Abdelnashim Satti
PS3M461	Faunistic survey on the pests of poplar trees species and their distribution Abbas Hosseinzadeh, Zahra Hashemi-Azad, Narges Akbari, Nouraddin Shayesteh
PS3M462	Distribution of green oak moth, <i>Tortrix viridana</i> L. (Lepidoptera: Tortricidae) Abbas Hosseinzadeh, Zahra Hashemi-Azad, Narges Akbari, Nouraddin Shayesteh
PS3M463	<i>Introduction:</i> Separation of Light from Darkness Günther Pass
PS3M464	Phylogenomic data support Remipedia as closest relative to Hexapoda Bjoern von Reumont, Emiliano Delgado, Javier Menéndez, Günther Pass, Swanton J. Little
PS3M465	Origin and early splits in hexapods: a multidisciplinary approach within the international initiative 1000 Insect Transcriptome Evolution (1KITE) Daniela Bartel, Alexander Blanke, Alexander Sigmund, Markus Endler, Nagesh Anand, Ravi Akaravireddy, Ravi Akaravireddy, Yasutaka Nakagaki, Günther Pass, Akito-Peterson

## Section 4 IPM

August 23-24 (Thu-Fri)

Code No.	Presentation Title Authors_Presenting author
PS4TH001	Contact toxicity of three formulations from lambda- cyhalothrin against German cockroach, <i>Blattella germanica</i> (L.) (Blattaria: Blattellidae) Gholamhossel Moravvej, Aida Saboor Sadeghzadeh
PS4TH002	Natural enemies of <i>Bemisia tabaci</i> on cabbage plants in Qassim, Saudi Arabia Mehemmed Abdulaziz Aldeghairi, Nagdy F. Abdel-Baky
PS4TH003	Psyllids damages to cultivated plants and forest timbers in Cameroon. Joseph Lebel Tamessa, Victor Joly Dzokou, Wenceslas Yana
PS4TH004	The application of powdery preparation "Erdust" against bread ground-beetle ( <i>Zabrus tenebrioides</i> ) on wheat crops Rakhmat Rasulov, Tufkin Ortikov, Sindar Pardayev
PS4TH005	Genetic modeling of the fipronil resistance's increase in the population of Colorado potato beetle Konstantin Kitaev, Elena Surina, Maxim Udakov, Galina Benkovskaya
PS4TH006	Examining the spatial and temporal factors that facilitate the distribution of <i>Halyomorpha halys</i> (Insecta: Hemiptera) in New Jersey, USA Adam Walner, Noel Hahn
PS4TH007	Influence of weed management on occurrence of the two-spotted spider mite, <i>Tetranychus urticae</i> and the native predaceous mite, <i>Neoseiulus womersleyi</i> in apple trees in northern Japan Ken Funayama
PS4TH008	Efficacy of bio-pesticides for the management of <i>Helicoverpa armigera</i> on chickpea in Central India Chandra Bhushan Singh
PS4TH009	Effect of selected doses of neem and pyrethrum based bio-pesticides on parasitism of <i>Liriomyza huidobrensis</i> (Blanchard) by <i>Phaenodroma scabriventris</i> Nixon Everlyne S. Namukoya, Adeniran Chabi-Olaye, Kamel K. M. Fiaaboe, Daisy Salifu, Callistus K.P.O. Ogoi
PS4TH010	Suppression of fecundity, vitellin content and Nlvg gene expression in <i>Nilaparvata lugens</i> Stal (Hemiptera: Delphacidae) adult females exposed to sub-lethal dosages of indoxacarb and chlorantraniliprol Jinglan Liu, Xia Yang
PS4TH011	Effects of commonly used synthetic pesticides in Pea production systems on <i>Liriomyza huidobrensis</i> and its parasitoids in Central Kenya Mary M. Guantai, Kamel K.M. Fiaaboe, Callistus P.K.O. Ogoi, Daisy Salifu, John M. Kasina, Adeniran Chabi-Olaye
PS4TH012	Utilization Package of biological control agent of the green lacewing, <i>Mallada basalis</i> (Walker) (Neuroptera: Chrysopidae) Rattigan Submek, Sapon Uraichuen, Anuchit Chinajariyawong
PS4TH013	Fumigant activity of plant essential oils from basil and spearmint on the Mediterranean flour moth <i>Anagasta kuehniella</i> Zeller (Lepidoptera : Pyralidae) Panagiotis A. Iliopoulos, Christos N. Hassiotis, Stefanos S. Andreadis
PS4TH014	Diversity and seasonal activity of bark and ambrosia beetles in South Carolina, USA Juang Horng Chang
PS4TH015	The economy of a successful ambrosia beetle management program in ornamental tree nursery Juang Horng Chang
PS4TH016	Geographic variation among Colorado potato beetle populations and its implications for managing insecticide resistance Andrei Alyokhin, David Mota-Sanchez, Mitchell Baker, Jie Chen, Mark Whalon
PS4TH017	Acaricidal bioactivity against <i>Tetranychus cinnabarinus</i> (Acari : Tetranychidae) of <i>Artemisia annua</i> extracts and their phytotoxicity on pest mites host plant cowpea Yong-qiang Zhang, Wu Ding, Jin-xiang Luo, Zhen-guo Yang
PS4TH018	Cost-effectiveness of integrated pest management compared with insecticidal spraying against the German cockroach in apartment buildings Gholam Hossein Shahraki, Dolkhigi Bin Omar, Hafidzi Mohd Noor
PS4TH019	Contact activities of extracts from different parts of <i>Phytapacca americana</i> L. against <i>Tetranychus cinnabarinus</i> (Boisduval) (Acarina:Tetranychidae) Li-juan Ding, Wu Ding, Yong-qiang Zhang

- PS4TH020** Bio-ecology of the red palm weevil, *Rhynchophorus ferrugineus* Olivier (Coleoptera: Curculionidae)  
Oscar Dembilio, Josep Anton Jacas
- PS4TH021** Ground cover management affects species composition, distribution, and seasonal abundance of Thysanoptera occurring in citrus.  
Ernestino Aguilar-Fenollasa, Josep Anton Jacas
- PS4TH022** Life history parameters for *Nesiodicoris tenuis* Reuter and *Macrolophus pygmaeus* (Rambur) (Hemiptera: Miridae) preying upon *Tuta absoluta* (Meyrick) (Lepidoptera: Gelechiidae)  
Oscar Malla, Miquel Alonso-Valiente, Alberto Urbaneja
- PS4TH023** Molecular evaluation of sterile *Ceratitis capitata* males performance in field cages: correlation of mate achievement and fruit damage avoidance  
Maria A. Juan-Blasco, Beatriz Sabater Munoz, Maria V. Jimenez-Suñi, Rafael Angles, Josep A. Arcus, Pedro Castanera, Alberto Urbaneja
- PS4TH024** Novel insect toxins from two scorpions inhabiting Japan, *Liocheles australasiae* and *Isometrus maculatus*  
Yoshiaki Nakagawa, Masahito Miyashita, Shinichi Matsugawa
- PS4TH025** Botanical extracts in northeastern Brazil: Biological alternative to pest control in fruit species  
Marcene Cesar Mendonça Chagas, Emerson Espinola Salmata, Fago Cardoso Costa Lima
- PS4TH026** Employing pheromone traps for seasonal monitoring of the potato tuber moth, *Phthorimaea operculella* (Zeller) (Lepidoptera: Gelechiidae) in Bulgaria  
Mitko Subchev, Todor B. Todorov, Daniela L. Atanasova, Vania D. Petrova, Miroslav Irev
- PS4TH027** Optimum predation temperature and pesticide susceptibility of the predatory bug, *Geocoris proteus* Distant (Heteroptera: Geocoridae)  
Yuta Tsuchida, Shinichi Masui, Yusuke Kato, Akira Totsua
- PS4TH028** Individual-based model for the spread of citrus greening disease by the vector insect *Diaphorina citri*  
Yoshiaki Kato, Fago Tokasu, Yasuo Ohno
- PS4TH029** The association of a Lepidopteran borer complex between pecan nuts (*Carya illinoensis*) and citrus (*Citrus sinensis*) in the vaalharth region  
Andre Petrus van Rooyen, Vaughn Richmond Swart, Sjaan Bloem
- PS4TH030** Integration of bean resistance and a botanical insecticide (neem formulation) to manage the Mexican bean weevil  
Danilo Akio de Sousa Esashika, Tereza Alves de Araujo, Jussara Gonçalves Sousa, Antonio Macedo Oka, Cristina Schetino Bastos
- PS4TH031** Adoption of multiples tactics of the cotton IPM to manage the boll weevil.  
Tamilir Alves Araujo, Yann Schmidt Tschimann Krieger, Andrey Batista Ribeiro, Enchilame Brandão, Walber Xavier dos Santos, Cristina Schetino Bastos
- PS4TH032** Attractiveness of blue and ultraviolet light-emitting diodes to *Thrips palmi* Karny  
Yusuke Kato, Shinichi Masui, Yuta Tsuchida, Akira Totsua
- PS4TH033** Energy-saving light trap for cigarette beetles using flickering UV-LED.  
Naoto Fukazawa, Satoshi Tsuchiya, Hirotaka Inamoto, Ryota Takahashi
- PS4TH034** Effect of flonicamid on voltage-gated potassium currents  
Hiroyuki Shibukawa, Shogo Akutsu, Chieko Inokubo, Shinya Matsuyama, Kiyomasa Yoshida, Tomotaka Ishikawa
- PS4TH035** Eradication of the solanaceous fruit fly, *Bactrocera latifrons* (Hendell) (Diptera: Tephritidae), from Yonaguni Island, Okinawa, Japan  
Takashi Matsuyama, Tsuguo Kohama, Osamu Mizutani, Noriyuki Kato, Naoki Maeda, Kazuhiko Kato
- PS4TH036** Do closely related plants play a role in enhancing problems caused by *Meligethes aeneus* Fab?  
Ritina Kaasik, Gabriella Kovacs, Luise Metzger, Eve Veromann
- PS4TH037** Fatal attractiveness? Host plant may kill its enemy's offspring  
Eve Veromann, Ritina Kaasik, Gabriella Kovacs, Luise Metzger
- PS4TH038** BICOPOLL: Targeted precision biocontrol and enhanced pollination  
Helmut Håkkinen, Otto Böckling, Andrew Coll, Brian Cuth, Colin Ekin, Rami Kivimä, Jarmo Kivimä, Bettina Maccagnani, Ingeborg Menzel-Haakman, Veerle Meuwissen, Mirjam Mout, Guo Shengping, Niklas Winkler, Soledad Tunali, Eve Veromann, Peter Witzgall
- PS4TH039** The use of companion planting for the management of the large white butterfly (*Pieris brassicae*) on white cabbage (*Brassica oleracea* var. capitata)  
Gabriella Kovacs, Ritina Kaasik, Anne Erik, Eve Veromann
- PS4TH040** Wild hosts of spotted wing drosophila a new threat to berry crops in Florida, USA and elsewhere  
James F. Price, Curtis A. Nagle

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P54TH041	Biological fitness and feeding behavior of imidacloprid-resistant and -susceptible brown planthopper, <i>Nilaparvata lugens</i> (Stål) on different resistant rice varieties Jianming Chen, Li Chen, Yueping He, Juefeng Zhang
P54TH042	Soil-borne insect pests in DPR Korea: Identification of key targets and timing for control Hongmei Li, Keith Andrew Holmes, Song H Kang, Yang Suk Ryang, San Gun Pak, Ryoung Man Son, Rihoua Han, Jinghua Chen, Franz Bollwolder, Daniel Zingg, Marc Kenis, Zhenying Wang, Stefan Toebe
P54TH043	Harmonic radar finders as insect monitoring devices Gilles Boiteau, Charles Vincent, François Maloche, Tracy C. Lesley, L.Y. Gu, Bruce G. Colquhoun
P54TH044	Effect of sublethal insecticide exposure on individual variation in activity and prey capture in the jumping spider <i>Eris militaris</i> (Araneae: Salticidae) Raphael Royau, Chris M. Buddle, Charles Vincent
P54TH045	Leafhopper biodiversity in Canadian vineyards and feeding behavior of three <i>Erythroneura</i> species Julien Savézie, Andy Hamilton, Chrystel Olivier, Charles Vincent, Jacques Latreille, Brian Galka, Lorne Stobbs, Tom Lowery, Philippe Gaudanengo
P54TH046	The study on the protein bait of <i>Bactrocera dorsalis</i> (Diptera: Tephritidae) Wenying Zhang, Hongyu Zhang
P54TH047	Study on non-chemical control techniques of <i>Thrips flavidulus</i> (Thysanoptera: Thripidae) Hailong Yao, Fahai Yu, Hongyu Zhang
P54TH048	Behavioral response of the egg-larval parasitoid <i>Ascogaster reticulata</i> to tea leaves treated with host eggs or other host materials Narisara Piyasengthong, Yooichi Kainoh
P54TH049	Pyrethroid resistance in melon thrips, <i>Thrips palmi</i> Karny Wen Xue Bao, Shoji Sanoda
P54TH050	Management of strawberry blossom weevil and European tarnished plant bug in organic strawberry and raspberry using semiochemical traps Atle Wibe, Ize Apenete, Catherine Baroffio, Anna-Karin Borg-Karlson, Jerry Cross, David Hall, Lene Sigsgaard, Nina Trandem
P54TH051	Mating disruption of <i>Planococcus kraunhiae</i> (Kuwana) (Hemiptera: Pseudococcidae) with its sex pheromone in Japanese Persimmon Orchards Yutaka Nara, Nobuo Sawamura, Rikiya Sasaki, Jun Tabata, Mayumi Teshiba
P54TH052	Population genetics of <i>Bactrocera dorsalis</i> and <i>B. papayae</i> across Thai-Malay Peninsula Nidchaya Aketawong, Sittima Isarawan, Sujinda Thanaphum
P54TH053	The SLU Centre for Biological Control: Generating new knowledge on sustainable application of biological control Margareta Hakeberg, Hanna Friberg, Sebastian Hakansson, Mattias Jonsson, Ingvar Sundh
P54TH054	Exploring a mass-production with an artificial diet in the sweetpotato weevil <i>Cylas formicarius</i> Yoshiki Takizawa, Norikuni Kumano, Keiko Shimoto, Tetsuya Toyosato, Takashi Kuriwada, Takashi Matsuyama
P54TH055	Insecticidal effect of <i>Jatropha curcas</i> oil on the main insect pests associated with cowpeas ( <i>Vigna unguiculata</i> ) in Niger Zakari Abdoul Haba, Frédéric Francis, Toudou Adam, Guy Merges, Eric Houbert, François Verheggen
P54TH056	Application of semiochemical releasers and intercropping to control aphid and related virus in East China Emilie Bastique, Thomas Lopes, Damien Polo Lozano, Sophie Vandermoten, Ju Lian Chen, Cheng Dengfa, Liu Yong, Eric Houbert, Frédéric Francis
P54TH057	Mating disruption for control of codling moth, <i>Cydia pomonella</i> , in commercial apple orchards in Quebec, Canada Daniel Cormier, Francine Pelletier
P54TH058	Phenotypic and genetic diversity of rice varieties and relation to attack of <i>Diatraea saccharalis</i> Jose Alexandre F. Barrios, Jacqueline Barbosa Nascimento, Paulo Marcal Fernandes, Tereza Cristina de Oliveira Barbo, Raquel Neves de Melo, Jose Francisco da Silva Martins
P54TH059	Pathogenicity test of the fungus <i>Aspergillus clavatus</i> on aphid <i>Acyrtosiphon pisum</i> (Aphididae) Fawaz Saye, Thomas Bowlin, Franck Delvigne, Frédéric Francis
P54TH060	Damage levels of two stink bugs (Heteroptera: Pentatomidae) that feed on rice stems in Brazil Tavus Micoel Alves, Jose Alexandre F. Barrios, Daniel Ferreira Calisto, Henrique Matias R. Silva
P54TH061	Assessment of synthetic chemicals for disruption of <i>Rhynchophorus ferrugineus</i> attraction in an urban environment Salvatore Guarino, Ezio Per, Paola La Bue, Mari Pia Germana, Stefano Colazza, Leonid Anshelevich, Victoria Soraker



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Presentation Title  
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- PS4TH062** Comparison of aphidofauna in Belgium and Mali and potential impact on potato virus dispersion  
Almouner A, Yottara, Amadou K Coulibaly, Claude Enjalbal, Ngallo Guedes, Moutoua, Houdouga, Frederic Francis
- PS4TH063** Preliminary study of hydroxymethylfurfural (HMF) presence in syrup to feed bees in Belgium  
Lara Zúñiga, Bach Kim Nguyen, Sophie Vandermaten, Erik L. de Graaf, Rina De Maessene, Jovan de Maessene, Claude Schepers, Eric Houtbrue
- PS4TH064** Invasive exotic plant species in the Southern Appalachians (USA): Potential targets for biological control  
Jerome F. Grant, Gregory J. Wiggins, Peter C. Lorenson
- PS4TH065** Status of the codling moth and the oriental fruit moth populations in apple orchards of Quebec, Canada  
Daniel Cormier, Caroline Provost, Frantz Mandelstam, Guy-Michel Chagnon
- PS4TH066** Prevalence of phytoplasma diseases in Canadian vineyards  
Chrystel Olivier, Julien Sagoo, Brian Glick, Louise Webb, Roger Bousquet, Thomas Vincent
- PS4TH067** Insights into the potential of classical biological control in a changing climate  
Owen Offert, Tim Hays, Ross Weiss, John K. Suckale
- PS4TH068** Plant physiological disruption preceding hopperburn by a leafhopper  
William O. Lamp, Bridget DeJoy
- PS4TH069** Volatile organic compounds of teak and behavioral responses of termites to teak volatiles  
Prodpran Thakew, Sergio Angeli
- PS4TH070** Coordinated monitoring, forecasting and risk warning systems for field crop insects in western Canada  
Jennifer Otari, Scott Meers, Scott Hovary, John Giedosz, Lloyd Dossell, Herbert Curran, Owen Offert
- PS4TH071** Global effort to maintain susceptibility of the ryanodine receptor modulators and other insecticide modes of action: Efforts of the IRAC International Diamide (Group 28) Working Group  
Compagny Veronica, John T. Andolvo, Lois Jackson, Irene Billy Austin, Robert Scott, John W. Smith, Armin Arndt, Jeff Brown
- PS4TH072** Features and attributes of DuPont™ Cyazypyr™ (DPX-HGW86, Cyantranilprole): A New Anthranilic Diamide Insecticide  
Isaac Billy Amann, Hector E. Portillo, Juan M. Alvarez, Samuel O. Bani, Roberto A. Enríquez, Rachel A. Williams, Emma C. Elger, Christopher J. Williams, Joseph P. Salvo, Mark J. Boudart, Christopher J. Clark, William Scott
- PS4TH073** Different spectrum of insecticide resistance in the peach aphid *Myzus persicae* (Sulzer) (Homoptera: Aphididae) in populations from Beijing area, China  
Ya-Jun Gong, Shu-Jun Wei, Bao-ou Shi, Jia-Hua Jia, Hui-Jin Guo, Jing-Jing Shi
- PS4TH074** Diversity and genetic differentiation of the whitefly *Bemisia tabaci* species complex in China based on mtDNA CO1 analysis  
XiaoJun Guo, Chen Luo, Fan Zhang, Jieyi Guo
- PS4TH075** Life cycle (developmental) stages of *Hymenidia recurvalis* (f.) (Lepidoptera: Pyralidae) on susceptible amaranthus species in Ibadan south-west Nigeria  
Ismaïla Adeniran Aderolu, Amin Adeniran Aderolu
- PS4TH076** Investigation of occurrence and spatial distribution of *Pseudaulacaspis pentagona* (Targioni-Tozzetti) on peach trees in greenhouse  
Yingnan Wang, Fan Zhang, XiaoJun Guo
- PS4TH077** Rapid expansion in geographic range of infestation of shiitake mushrooms by fungus gnat pest, *Neoempheria ferruginea* (Brunetti) (Diptera: Mycetophilidae), in Japan  
Masahiro Sueyoshi, Hiroshi Kijima, Etsuko Kijima
- PS4TH078** Specificity of pheromone traps for monitoring mealybugs in vineyards and pictorial key for males  
Tania Zaviezo, Margarita Corrua, Alkirehven, Patsy Páez
- PS4TH079** Seed treatment insecticide alternatives to manage soil insect pests of sugarbeet  
Mark A. Boetel, Allen J. Schroeder, Robert J. Cragg, Andrew Macdonald
- PS4TH080** Comparative evaluation of VOCs emitted by *Achillea collina* infested by aphids and mechanically damaged  
Annamaria Glorzi, Sara Panseri, CN Panseri, Valeria Panseri, Massimo Panseri, Massimo Panseri, Massimo Panseri, Massimo Panseri
- PS4TH081** Corn leaf aphid abundance in Cry3Bb1- and conventional-maize hybrids in South Dakota  
Billy Fuller, Rosemary Gutierrez, Jimmie M. Moore
- PS4TH082** Laboratory and field evaluation of *Isaria fumosorosea* (wise) brown and smith against cotton pests  
Pathamohan Vinayaga Moorthi, Chethan Rajkumar, Anand Kumar, Anand Kumar, Anand Kumar, Anand Kumar, Anand Kumar, Anand Kumar
- PS4TH083** Development and reproduction of *Ophraella communa* (Coleoptera: Chrysomelidae) on *Ambrosia artemisiifolia* and *Parthenium hysterophorus* and its potential for biological control  
Chin-ling Wang, Chen-Shen Lai, Fei-Chen Lin, Mu-Yen Juang

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PS4TH084	Outcomes of intraguild interactions between two egg parasitoids in field and semi-field conditions Valentina Amodeo, Antonino Cusumano, Ezio Perì, Paolo La Bue, Stefano Colazza
PS4TH085	Transmissibility of saffron infecting potyvirus in Iran by different aphid species Shirin Parizad, Mina Koochi Habibi, Gholamhossein Mossahebi, Akbar Dildadi, Yasaman Moghaddasi
PS4TH086	Development and implementation of an area-wide management of Asian citrus psyllid ( <i>Diaphorina citri</i> Kuwayama) in Texas Mamoudou Setamou, David Barszeli, Matt Compelik, John V. da Graça
PS4TH087	Selection and characterization of a <i>Spodoptera frugiperda</i> strain resistant to transgenic maize expressing a <i>Bacillus thuringiensis</i> protein Natalia Alves Leite, Simone Martins Mendes, Thais Patricia Moreira Teixeira, Eliseu Jose Guedes Pereira
PS4TH088	Assessment of <i>Harmonia yedoensis</i> Takizawa (Coleoptera: Coccinellidae) as a new agent for biocontrol Ekaterina N. Balueva, Toeh Kim, Jong Wook Lee
PS4TH089	Monitoring pesticide resistance of two spotted mite, <i>Tetranychus urticae</i> in rose greenhouses in Korea Bu-Keun Chung, Byoung-Ryeung Jeong, Si Hyeok Lee, Tae-Soo Chan, Siwoon Lee
PS4TH090	Larvicidal and repellent activity of Korean endemic <i>Thymus magnus</i> Nakai against the Asian tiger mosquito, <i>Aedes albopictus</i> Young-Uk Park, Hyun-Na Koo, Gil-Hah Kim
PS4TH091	Within-tree distribution of <i>Dialeurodes citri</i> (Homoptera: Aleyrodidae) immature on citrus trees Jeong Heub Song, Soan Yeong Hong, Shin Chan Lee, Seong Geun Kang
PS4TH092	Occurrence tendency of major pests in Korean apple orchards for past 20 years Kyung Hee Choi
PS4TH093	Control effect of mating disruption, Confuser R and Isomate KR to fruit moths in Korea apple orchards Kyung Hee Choi, Soanwon Lee
PS4TH094	Recent occurrence status of three major species of fruit moths in apple orchards Hyangmi Kim, Ji Jang, Soanwon Lee, Yoon Jung Kim, Joo Hee Song, Kyung Hye Choi, Nak Sam Seong
PS4TH095	Recent occurrence status of <i>Panonychus ulmi</i> and <i>Tetranychus urticae</i> in apple orchards Ji Jang, Soanwon Lee, Hyangmi Kim, Yoon Jung Kim, Nak Sam Seong
PS4TH096	Oviposition model of <i>Frankliniella occidentalis</i> (Pergande) (Thysanoptera: Thripidae) Sun Kyung Lee, Masana Park, Ju Won Yoon, Joao-Ho Lee
PS4TH097	Enhanced repellency against <i>Aedes aegypti</i> by composition of plant essential oils with vanillin addition and its application Seung-jae Baeck, Soon-il Kim, Jume-sun Yoon, Sung-hwa Lee, Young-jae Ahn, Hyung Wook Kwon
PS4TH098	The effect of exposure to a pulsed yellow light-emitting diode (LED) on the adult flight behavior of the cotton bollworm, <i>Helicoverpa armigera</i> Jungbeom Yoon, Masashi Nemura, Satoshi Ishikura
PS4TH099	Interactions between tannic acid and <i>Bacillus thuringiensis</i> subsp. kurstaki KB100 against <i>Spodoptera exigua</i> Mi Jin Jeon, Na Young Jin, Chang Soan Kwak, San Na Oh, Yoo Kyung Lee, Mi Ja Seo, Young Nam Yoon, Yong Man Yu
PS4TH100	Seasonal occurrence of <i>Riptortus pedestris</i> on Hairy Vetch and its development and longevity on host Hye Ri Kwon, Min Woo Park, Shin Hyuk Jo, Sae Hee Kim, Mi Ja Seo, Yong Man Yu, Young Nam Yoon
PS4TH101	Antifeedant activity and electrophysiological response of <i>Ailanthus altissima</i> against <i>Plutella xylostella</i> (Lepidoptera: Plutellidae) Hyun Na Koo, Jin-Won Jeong, Gil-Hah Kim
PS4TH102	Comparison of plasmid DNA and cry Gene in <i>Bacillus thuringiensis</i> subsp. aizawai KB096 and Their Mutants Mi Jin Jeon, Na Young Jin, Chang Soan Kwak, San Na Oh, Yoo Kyung Lee, Mi Ja Seo, Young Nam Yoon, Yong Man Yu
PS4TH103	Insecticidal activity and molecular genetics studies of <i>Bacillus thuringiensis</i> CAB530 Yoo Kyung Lee, Na Young Jin, Chang Soan Kwak, San Na Oh, Mi Jin Jeon, Mi Ja Seo, Young Nam Yoon, Yong Man Yu
PS4TH104	Effect of pests occurrence on the surface management methods of orchards Duck-Soo Choi, Da-ik Kim, Sang-Ju Ka, Beom-Ryong Kang, Jang-Dae Park
PS4TH105	Insecticidal activity of plant extracts by farmers' made to manage brown plant hopper, <i>Nilaparvata lugens</i> Da-ik Kim, Duck-Soo Choi, Sang-Ju Ka, Beom-Ryong Kang, Seon-Am Kim, Yang-In Kuk, Jang-Dae Park, Sang-Soo Kim
PS4TH106	Influence of aggregation pheromone trap on the distribution of egg parasitoids of <i>Riptortus pedestris</i> (Hemiptera: Alydidae) in soybean Bishwo Prasad Mainali, Uri Taek Lim

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PS4TH107	<b>The Effect of light-emitting diodes source and quality on occurrence of Aphid</b> <i>Hae Ran Kim, Kyeong-Mi Lee, Jang-Mi Shin, Hoon-bok Yi, Young-Han You</i>
PS4TH108	<b>Impact of resistance inducers for the management of late blight and sucking insects on Potato</b> <i>Muhammad Usman Ghazanfar, Waqas Wasiq, Kong Jung Kwon</i>
PS4TH110	<b>Studies on standard setting and mass rearing of natural enemies: <i>Aphidius colemani</i> Viereck, <i>Nesidiocoris tenuis</i> (Reuter) and <i>Chrysoperla carnea</i> (Stephens)</b> <i>Eunhye Ham, Cheol Hak Kim, Young Cheol Choe, Jim Seok Lee</i>
PS4TH111	<b>Superior defense systems in maize landraces: a potential pest management tool for smallholder maize farmers in Africa</b> <i>Charles A.O. Midega, Amanuel Tumiru, Toby Bruce, John Pickett, Zeyaur Khan</i>
PS4TH112	<b>Study on resistance monitoring of major pests in rice to insecticides</b> <i>Xiao Hu, Jianhong Li, Peng Lu, Xiaofei Zhang</i>
PS4TH113	<b>Developmental Control of brown planthopper <i>Nilaparvata lugens</i> (Hemiptera: Delphacidae) by ingestion of dsRNA of arginine kinase gene</b> <i>Miao Yuan, Jianhong Li, Xiru Wang, Dequn Cao</i>
PS4TH114	<b>Resistance monitoring of <i>Plutella xylostella</i> to insecticides in central China</b> <i>Hao Qiu, Jianhong Li, Daofen Bi, Fongna Yao, Huang You</i>
PS4TH115	<b>Comparative vertical and horizontal dispersion behavior of <i>Trichogramma brassicae</i> in the maize and rice fields</b> <i>Gholamhossein Gharekhanlou, Samaneh Soltanpour, Ali Metyew</i>
PS4TH116	<b>Sequential sampling plans for estimating population density of <i>Heliiothis virescens</i> Hufnagel (Lep : Noctuidae) on Rain-Fed chickpea</b> <i>Heidar Adilzadeh, Nouraddin Shayesteh</i>
PS4TH117	<b>Toxicity of chlorpyrifos and fenprothrin to <i>Habrobracon hebetor</i> (Hymenoptera: Braconidae)</b> <i>Hajar Faal-mohammadi, Ali-Asghar Seif, Khalil Talebi-Jahromi</i>
PS4TH118	<b>The importance of the parasitoid <i>Bracon hebetor</i> Say and the pheromone traps for controlling <i>Ephestia</i> spp. in the Date store</b> <i>Ayad Ahmed Ridha Al-Taweel</i>
PS4TH119	<b>Parasitism of <i>Heliiothis virescens</i> Hufnagel (Lepidoptera: Noctuidae) larvae by <i>Banchopsis crassicornis</i> Rudow (Hymenoptera: Ichneumonidae) in rain-fed chickpea</b> <i>Heidar Adilzadeh, Nouraddin Shayesteh</i>
PS4TH120	<b>Study on synergistic effects of henna in enhancement of pathogenicity of <i>Bacillus thuringiensis</i> Berliner on third and fourth instars larvae of Colorado potato beetle, <i>Leptinotarsa decemlineata</i> (Say)</b> <i>Akbar Ghassemi-Kahrizchi, Nouraddin Shayesteh</i>
PS4TH121	<b>Study on morphological indices of Colorado potato beetle, <i>Leptinotarsa decemlineata</i> (Say) in west Azerbaijan province</b> <i>Akbar Ghassemi-Kahrizchi, Nouraddin Shayesteh</i>
PS4TH122	<b>Control of eight species of important stored products pest insects with environmentally compatible compounds</b> <i>Gholamreza Sadeghi, Jafar Hosseinzadeh, Nouraddin Shayesteh</i>
PS4TH123	<b>Resistance of different grape cultivars to grape erineum mite, <i>Colomerus vitis</i> (Acari: Eriophyidae) in laboratory conditions</b> <i>Saeid Javadi Khaderi, Mohammad Khayami, Babek Zahiri</i>
PS4TH124	<b>Total phenol and o-dihydroxy phenol profiles of black gram (<i>Vigna mungo</i> (L.) Hepper) genotypes infested by <i>Bemisia tabaci</i> (Gennadius) (Hemiptera: Aleyrodidae)</b> <i>Gaurav Kumar Taggar, Ranjit Singh Gill, Anil Kumar Gupta, Sarvjeet Singh</i>
PS4TH125	<b>Insecticide resistance in Western flower thrips, <i>Frankliniella occidentalis</i> Pergande (Thysanoptera: Thripidae), on glasshouse cucumbers in Republic of Moldova.</b> <i>Elena Moantran, Mihail Batca, Igor Yezhovskiy</i>
PS4TH126	<b>Effect of sublethal doses of spiromesifen, spirotetramat and spiroticlofen on fecundity and fertility of female adults of <i>Tetranychus urticae</i> Koch (Acari: Tetranychidae)</b> <i>Mir Jalil Hejazi, Marziyeh Amleddah, Ghassem Askari Sayasudi</i>
PS4TH127	<b>Lethal temperature for Japanese termite, <i>Reticulitermes speratus</i>, in infested wood using microwave energy</b> <i>Sang Jae Suh, Jinseo Kim, Yong Jung Kwon</i>
PS4TH128	<b>Lethal temperature for Japanese pine sawyer, <i>Monochamus alternatus</i>, in infested wood using microwave energy</b> <i>Sang Jae Suh, Jinseo Kim, Yong Jung Kwon</i>

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PS4TH129	Model development by control technique of natural enemy on the insect pest in cucumber greenhouses in Korea Hyeon Hwan Kim, Myoung Aee Cho, Taek Jun Kang, Sung Jun Ahn, Sung Wook Jeon, Hae Wooky Park
PS4TH130	Occurrence of <i>Helicoverpa armigera</i> (Lepidoptera: Noctuidae) in Sindh, Pakistan Mansoor Ali Shah
PS4TH131	Management of mango hoppers <i>Idioscopus</i> spp. and <i>Amritodus</i> spp. (Cicadellidae: Hemiptera) Abraham Verghese, Suresh Devi Thangai, U. Thirumangalakudi Geetha
PS4TH132	A new technique to control and rejuvenate wood bored mango trees by <i>Batocera rufomaculata</i> (Fale) (Cerambycidae: Coleoptera) Thippenehalli Narayanappa Shivananda, Abraham Verghese, Manjunath R Hegde, Amrik Singh Sathu
PS4TH133	Popularizing IPM of oriental fruit fly ( <i>Bactrocera dorsalis</i> ) in mango through an area wide approach in India Thippenehalli Narayanappa Shivananda, Abraham Verghese, Manjunath R Hegde, Amrik Singh Sathu
PS4TH134	Evaluation of entomopathogenic fungi for the control of green peach aphid, <i>Myzus persicae</i> Wan Wao Lee, Tur Young Chou, Jui Bang Chao, Song-Mei Bao, Yuen-Hsiu, Byung-Rae Jin, Sae-Dong Woo
PS4TH135	Preparation and characterization of pheromone dispenser using nano materials Sung Man Seo, Hu Suk Kim, Ch Taek Lim, Wan Taek Lim
PS4TH136	Effect of pyriproxyfen on some physiological aspects of the pistachio fruit hull borer, <i>Arimania comaroffi</i> , pupae Akshay Benani, Mamzoh Izadi, Kamran Mahajan, Mehdi Baslou
PS4TH137	Insecticidal effects of <i>Thuja occidentalis</i> (Cupressaceae) essential oil on <i>Tribolium confusum</i> Duval (Col.: Tenebrionidae) Nouraddin Shayesteh, Jafar Housheini, Shadi Delkhoo, Omid Panahi
PS4TH138	Effects of <i>Lufox</i> on <i>Lobesia botrana</i> (Lepidoptera: Tortricidae) egg and larval stages Jafar Housheini, Nouraddin Shayesteh, Shadi Delkhoo, Omid Panahi
PS4TH139	Interaction of <i>Bacillus thuringiensis</i> Berliner and the parasitoid, <i>Diadegma insulare</i> (Cresson) (Hym., Ichneumonidae) and diamondback moth, <i>Plutella xylostella</i> (L.) (Lep., Plutellidae) Morteza Ebrahimi, Akbar Sahragard, Reza Tajeri-Mossallaei
PS4TH140	Abundance of the beneficial insect predator <i>Laius venustus</i> (Coleoptera: Malchiidae) in Sudan and risk of some commonly used insecticides on its population Hayder Abdelgader
PS4TH141	The application of insecticide against wires ( <i>Agrotis meticulosa</i> ) at planting potatoes Rokhmat Rasuly, Tulkun Ortikay, Tashmyaz Gozler
PS4TH142	The biological protection of tomatoes from broomrape with the help of <i>Ptyomyza orobanchia</i> Kalt Rokhmat Rasuly, Tashmyaz Gozler
PS4TH143	Eco-friendly approaches for corn pest management Mylene Raymundo Carpus
PS4TH144	Compatibility of <i>Lecanicillium longisporum</i> with acetamipride and imidaclopride under laboratory condition Omid Panahi, Jafar Housheini, Shadi Delkhoo, Nouraddin Shayesteh, Zohra Lak
PS4TH145	Bionomic of <i>Tetranychus urticae</i> and <i>Scolothrips longicornis</i> on bean and cucumber Hajar Pakyari
PS4TH146	Preliminary observation on the relation of BPH resistance and RRSV infection in rice entries carrying different BPH resistance genes Xudong Zhu
PS4TH147	Effects of two isolates of <i>Beauveria bassiana</i> (Balsamo) Vuillemin on <i>Leptinotarsa decemlineata</i> (Say) (Col.: Chrysomelidae) larval stage Muhammad Husein Kazem, Karaman Shafiqhi, Yaser Ghossein, Jamil al-Bakr, Nouraddin Shayesteh
PS4TH148	Investigation of lethal effect of Proteus and Movento on tobacco aphid ( <i>Myzus nicotianae</i> Blackman) under greenhouse condition Sepideh Shafiei, Mohammad Hassan Safarizadeh, Nouraddin Shayesteh
PS4TH149	Cloning and expression of a novel cryII gene from <i>Bacillus thuringiensis</i> isolates and its toxicity against <i>Myllocerus undecimpustulatus undatus</i> Marshall (Coleoptera: Curculionidae) and <i>Helicoverpa armigera</i> H.M. Mahadeva Swamy, Ramasubramanian, Geetha G. Thirumangalakudi, Nagesha S. N. Rao, Mohan Rao, Drip K. Arora
PS4TH150	Investigation of lethal effect of Proteus and Movento on tobacco aphid ( <i>Myzus nicotianae</i> Blackman) under greenhouse condition Sepideh Shafiei, Mohammad Hassan Safarizadeh, Nouraddin Shayesteh

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PS4TH151	An investigation on aphids (Homoptera) biodiversity of apple trees in Urmia region Nouraddin Shayesteh, Hossein Rami
PS4TH152	Study on aphids (Homoptera) fauna of wheat form in West Azerbaijan, Iran Nouraddin Shayesteh, Hossein Rami
PS4TH153	Investigation of population fluctuations of sunn pest, egg parasitoids (Hymenoptera: Scelionidae) and estimating parasitism rate in central regions of West Azerbaijan Province, Iran Faraz Shafaei, Shohad Homipour, Mehrnaz Hamedani, Asa Esmail Akhlaghi
PS4TH154	Survey of the caused damage by the birds on the sunflower fields in different planting dates in west Azarbaijan Esmail Alizadeh, Nouraddin Shayesteh
PS4TH155	The review of insecticidal activity and oviposition deterrence of essential oils from <i>Artemisia dracunculul</i> L. and <i>Mentha piperita</i> L. against <i>Callosobruchus maculatus</i> F. (Col.: Bruchidae) Khadijeh Izakmehr, Moosa Saber, Sattar Janghorani
PS4TH156	Insecticidal activity and GC/MS analysis of three essential oils on cowpea weevil <i>Callosobruchus maculatus</i> F. (Col.: Bruchidae) Khadijeh Izakmehr, Moosa Saber, Mehrnaz Hamedani, Faraz Shafaei, Hossein Rami
PS4TH157	Lethal, sublethal and combination effects of azadirachtin and <i>Bacillus thuringiensis</i> Berliner on cotton bollworm, <i>Helicoverpa armigera</i> Hubner (Lepidoptera: Noctuidae) Zahra Abedi, Moosa Saber, Samad Noghayegh, Ghazal Farahani
PS4TH158	Acute and population level toxicity of azadirachtin and cypermethrin on larval ectoparasitoid <i>Habrobracon hebetor</i> Say (Hymenoptera: Braconidae) Zahra Abedi, Moosa Saber, Ali Mehrzad, Behrooz Khatami, Ghazal Farahani
PS4TH159	Insecticidal effects of 1, 8-cineole essential oil on <i>Tribolium confusum</i> Duval (Col.: Tenebrionidae) under laboratory conditions Jamshid Marzanghi, Mohammad Hossein Khatami, Nouraddin Shayesteh, Amir Khatami
PS4TH160	Preliminary studies on prevailing species of rose stem borer sawflies in Urmia, Iran Nouraddin Shayesteh, Jamshid Marzanghi, Mohammad Hossein Khatami, Amir Khatami
PS4TH161	Life table parameters of <i>Agonosena bimaculata</i> on Khinjuk trees, <i>Pistacia khinjuk</i> and cultivated pistachio <i>Neda Fallahnejad</i> Majarred, Sahar Khatami, Mehrnaz Hamedani, Mehrnaz Hamedani, Faraz Shafaei, Amir Khatami
PS4TH162	Field evaluation of <i>Beauveria bassiana</i> and <i>Verticillium lecanii</i> against jasmin whitefly, <i>Aleuroclava jasmine</i> on citrus Hussain Fadhil Mohammed Ali
PS4TH163	Efficacy of <i>Bacillus thuringiensis</i> against the larvae of <i>Helicoverpa armigera</i> and its compatibility with <i>Metarhizium anisopliae</i> and chlorantraniliprole Waqas Wakil, M. Usman Ghazvini, Waqar Hussain, Waqar Hussain, Waqar Hussain
PS4TH164	Comparative study on the effect of <i>Bacillus thuringiensis</i> var. tenebrionis, imidacloprid and phosalone on different larval instars of <i>Leptinotarsa decemlineata</i> (Say) under laboratory conditions Akbar Ghassemi-kahrizchi, Shivan Mehrzad, Mehrnaz Hamedani, Mehrnaz Hamedani, Mehrnaz Hamedani
PS4TH165	Study on morphological indices of Colorado potato beetle, <i>Leptinotarsa decemlineata</i> (Say) in west Azerbaijan province Akbar Ghassemi-kahrizchi, Mehrnaz Hamedani
PS4TH166	Study on synergistic effects of henna in enhancement of pathogenicity of <i>Bacillus thuringiensis</i> Berliner on third and fourth instars larvae of Colorado potato beetle, <i>Leptinotarsa decemlineata</i> (Say) Nouraddin Shayesteh, Akbar Ghassemi-kahrizchi
PS4TH167	Genetic rice breeding for resistance to the <i>Oryzophagus arylae</i> in Brazil Jose Francisco da Silva Martins, Jose Francisco da Silva Martins, Jose Francisco da Silva Martins
PS4TH168	A effective pesticide? Spirotetramat for the control of the <i>Cacopsylla chinensis</i> Yang & Li (Hemiptera: Psyllidae) Ya-Jun Gong, Shao-Jun Wei, Bao-Feng Shi
PS4TH169	Mechanism of resistance in wild relatives of pigeonpea against <i>Moruca vitrata</i> Geyer (Lepidoptera: Pyralidae) Chitra Narayanasamy, Palanisamy, V. Narayanasamy, V. Narayanasamy
PS4TH170	Seasonal migratory behaviors of <i>Mythimna separata</i> (Lepidoptera: Noctuidae) in Northeast China Yunhui Zhang, Zhi Zheng, Dengliang Liu
PS4TH171	Insecticidal potentiality of <i>Datura innoxia</i> leaf extracts against the adult cluster bug <i>Agonoscelis pubescens</i> (Thunberg) (Heteroptera: Pentatomidae) Hafsum Ahmed Elmasser, Abdalla Abdelrahman Sadek, Hani Elmaghrabi, Hani Elmaghrabi

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PS4TH172	Evaluation of synthetic (Indoxacarb, Flubendamide, Spinetoram, Flufenoxuron, Chlorfenpyr, Leufenuron and Coragen) and Microbial pesticides (Emamactin and Spinosad) against <i>Spodoptera litura</i> Fawad Khan, Noor Abid Saeed, Abdul Khatib, Muhammad Sagheer, Sajid Nadeem
PS4TH173	The synergistic effect of Henna powder on increasing efficacy of <i>Bacillus thuringiensis</i> var. <i>Kurstaki</i> against third larval instar of pistachio white leaf moth <i>Ocneria terebinthina</i> (Lep.: Lymanteridae) Zahra Sheibani Tezerji
PS4TH174	Reproductive toxicity of imidacloprid and bifenthrin to the biological control agent, <i>Chrysoperla carnea</i> Haliza Tahira Gul, Shafiqat Saeed, Altaullah Khan Pathan
PS4TH175	Analysis of physio-morphic traits in different host plants associated with resistance to <i>Phenacoccus solenopsis</i> : An invasive pest in Pakistan Muhammad Rafiq Shohid, Muhammad Jalal Arif, Muhammad Dilidar Gagi
PS4TH176	Investigation on the most appropriate pattern, sample unit and sample universe to estimate <i>Tetranychus urticae</i> Koch. population in common bean, <i>Phaseolus vulgaris</i> fields. Nasim Abolfathi

## Section 5 Pathology

August 23-24 (Thu-Fri)

Code No.	Presentation Title Authors, Presenting author
PS5TH177	<b>ABCC2 functions as a receptor for <i>Bacillus thuringiensis</i> Cry toxin</b> Shiho Tanaka, Kazuhisa Miyamoto, Hiroaki Noda, Ryoichi Sato
PS5TH178	<b>Characterization of cell line developed from the neonate larvae of <i>Papilio demoleus</i> Linnaeus (Lepidoptera: Papilionidae)</b> Weifeng Ding, Ying Feng, Xin Zhang, Xiao-Ming Chen, Xian Li, Cheng-Ye Wang, Tao Mo
PS5TH179	<b>Economized media for spore production of white muscardine, <i>Beauveria bassiana</i> (Balsmo) Vuillemin and its pathogenicity on <i>Brontispa longissima</i></b> Paweena Buechian, Witwat Sudasand, Anurak Chaitongwong
PS5TH180	<b>Analysis of two molecules determining susceptibility to Cry1 toxin in <i>Ostrinia scapularis</i></b> Haruka Endo, Ryoichi Sato
PS5TH181	<b>The baculovirus uses a stolen host phosphatase to induce enhanced locomotory activity in host caterpillars</b> Susumu Katsuma, Yasuo Koyama, Wan Kyung Kang, Ryuhei Kakusho, Shuzo George Kaneto, Toru Shimada
PS5TH182	<b>Comparative proteomic analysis reveals the mechanism of morphological and physiological changes of <i>Bacillus thuringiensis</i> YBT-1520 under heat stress and its survival strategies</b> Mingshun Li, Dandan Wu
PS5TH183	<b>The human gene for Gaucher disease causes the neurodegeneration in the eye of <i>Drosophila</i></b> Takahiro Suzuki, Masami Shimada, Kumpeta, Shigeo Hama, Hidenobu Aburahi, Tomoki Katou, Kazunori Kawasaki, Hyung Don Ryoo, Naoko Goto-Inoue, Mitsutatsu Setou, Shoji Tsuji, Terumi Yamaguchi, Naoko Ishida
PS5TH184	<b>Role of the polyhedrin promoter in enhanced locomotory activity induced by baculovirus</b> Ryuhei Kakusho, Toru Shimada, Susumu Katsuma
PS5TH185	<b>Host range of new <i>Bacillus thuringiensis</i> pest biocontrol agents from Kyrgyzstan</b> Tinatin Doolotkeldieva
PS5TH186	<b>Cooperation between two receptors for phagocytosis in defense against bacterial infection in <i>Drosophila melanogaster</i></b> Akiko Shiratsuchi, Yoshinobu Nakashiki
PS5TH187	<b>Ribosomal RNA degradation during abortive nucleopolyhedrovirus infection of BM-N cells derived from the silkworm, <i>Bombyx mori</i></b> Rina Hamajima, Yuya Ito, Michihito Kobayashi, Morio Ikeda
PS5TH188	<b>Pathological characteristics of <i>Lymantria dispar</i> Nucleopolyhedroviruses isolated from diseased larvae collected in Japan</b> Tomoya Sano, Ayako Hirata, Mutsaka Inaki, Yasuhisa Kunimi
PS5TH189	<b>Molecular responses of non-permissive cell lines to inoculation with <i>Adoxophyes</i> nucleopolyhedroviruses (Baculoviridae)</b> Yasumasa Saito, Yasuhisa Kunimi, Mutsaka Inaki
PS5TH190	<b>Regulation of <i>Bombyx mori</i> initiator caspase Drorc by Hycu-IAP3 of <i>Hyphantria cunea</i> nucleopolyhedrovirus</b> Mutsaka Ikeda, Ikuo Suganuma, Michihito Kobayashi
PS5TH191	<b>Regional expression of the putative virus receptor, nsd-2, and the virus, BmDNV-2 in the midgut</b> Katsuhiko Ito, Sachiko Shimura, Keiko Kodono-Okuda
PS5TH192	<b>Molecular dissection of <i>Bombyx mori</i> nucleopolyhedrovirus cg30</b> Genki Ishihara, Toru Shimada, Susumu Katsuma
PS5TH193	<b>Coexistence of full-length and truncated versions of ecdysteroid UDP-glucosyltransferase gene in the <i>Antheraea pernyi</i> nucleopolyhedrovirus isolated from <i>Samia cynthia ricini</i></b> Kuni Sasaki, Yuan-jiao Huang, Mei-ling Shi, Xue-jing Wang, Jun Kobayashi
PS5TH194	<b>Clonal variation in the <i>Helicoverpa armigera</i> insect cell population</b> Sudawan Chaeychamsri, Win Chaeychaerit
PS5TH195	<b>Isolation and characterization of entomopathogenic fungi isolated from wild mosquito</b> Minehiro Ishii, Junya Takashita, Mutsaka Inaki, Shinya Fukumoto, Hirotsuka Kamata, Masanori Koike, Daigo Aizawa
PS5TH196	<b>The large pine weevil (<i>Hylobius abietis</i>) as a vector of saprophytic fungi</b> Ivar Silval, Tilo Drenth

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- PS5TH197** Genome and transcriptome-wide analysis of the immune-related genes in the brown planthopper *Nilaparvata lugens*  
Yan-Yuan Bao, Dong Zhao, Li-Ba Chen, Hong-Yuan Jin, Liang-Mei Xu, Chuai-Xi Zhang
- PS5TH198** Identification of a new *Bombyx mori* nucleopolyhedrovirus strains and analysis of its bro gene family  
Jiaping Xu, Angha Zhou
- PS5TH199** Isolation of *Bacillus thuringiensis* from forest environments in Korea  
Dae-Weon Lee
- PS5TH200** Migrations and multiplications of three kinds of pine wood nematodes in *Pinus thunbergii*  
Jaung A Son, Huiyung Moon, Chan-Jik Jung, Chul-Ju Kim
- PS5TH201** High-throughput expression of recombinant protein using baculovirus  
Jae Young Choi, Yong-Su Kim, Yong Wang, Xue Ying Tao, Qin Lin, Jang Yul Roh, Soa Dong Woo, Byung Rae Jin, Yeon Ho Je
- PS5TH202** Molecular characterization of a *Bacillus thuringiensis* serovar mogi (flagellar serotype 3a3b3d) with mosquitocidal activity  
Qin Lin, Jang Yul Roh, Jae Young Choi, Yong Wang, Xue Ying Tao, Joo Hyun Lee, Sung Eun Kim, Zhenli Fu, Jae Su Kim, Yeon Ho Je
- PS5TH203** Functional characterization of *Autographa californica* multiple nucleopolyhedrovirus ORF43  
Xue Ying Tao, Jae Young Choi, Yong Wang, Jang Yul Roh, Joo Hyun Lee, Qin Lin, Jang Yul Roh, Jae Su Kim, Soa Dong Woo, Byung Rae Jin, Yeon Ho Je
- PS5TH204** Novel baculovirus expression vector enabling simple purification of recombinant protein using polyhedrin fusion  
Jang Yul Roh, Jae Young Choi, Jeong Nam Kang, Yong Wang, Hye Jin Shim, Qin Lin, Xue Ying Tao, Hong Guang Xu, Soa Dong Woo, Byung Rae Jin, Yeon Ho Je
- PS5TH205** Cloning of circular DNAs from microorganisms using a novel plasmid capture system  
Jang Yul Roh, Yong Wang, Qin Lin, Xue Ying Tao, Jae Young Choi, Hye Jin Shim, Hong Guang Xu, Soa Dong Woo, Byung Rae Jin, Yeon Ho Je
- PS5TH206** A Novel, highly effective and environmentally friendly recombinant baculovirus insecticide, *NeuroBactrus*  
Hee Jin Shim, Jae Young Choi, Yong Wang, Xue Ying Tao, Qin Lin, Jang Yul Roh, Jae Su Kim, Soa Dong Woo, Byung Rae Jin, Yeon Ho Je
- PS5TH207** Incidence of entomopathogenic fungi from agricultural and forest areas and their pathogenicity in *Bactrocera cucurbitae* (Coquillett) (Diptera: Tephritidae) in Southern Thailand  
Narit Thaochan, Anuchit Chongrojajornwong
- PS5TH208** Real-time tracing of AcMNPV infection to *Plutella xylostella* and the interaction between virus and parasitoid  
She-Jen Tsuan, Yu-Chen Zhao, Roger F. Hsu
- PS5TH209** Synergistic interaction of *Beauveria bassiana* and *Bacillus thuringiensis* for the control of tomato fruitworm *Helicoverpa armigera*  
Mirza Abdul Qayyum, Waqas Waqif, Usman Ghaznafar, Yang Jung Awan
- PS5TH210** Entomopathogenic fungi: An alternative in the control of the Asian citrus psyllid, *Diuraphis citri* Kuwayama (Hemiptera: Psyllidae)?  
Hana Haji Allahverdi Pour
- PS5TH211** Antimicrobial and antioxidant activity in liquid culture filtrates of entomopathogenic fungi  
Tae Young Shin, Won Woo Lee, Jae Bang Choi, Sung Min Bae, Yoon Han Je, Byung Rae Jin, Soa Dong Woo
- PS5TH212** Genomic sequence analysis of the *Myphantria cuneae* granulovirus isolated in Korea  
Jae Bang Choi, Won H Hsu, Sung Min Bae, Tae Young Shin, Yeon Ho Je, Byung Rae Jin, Soa Dong Woo
- PS5TH213** Genetic expression characteristics of other nematodes cellulase-related genes except for *Bursaphelenchus xylophilus*.  
Dahyun Moon, Yisung Moon, Hyemin Han, Chanuk Jung, Chulju Kim
- PS5TH214** Sequence analysis and characterization of adaptor protein MyD88 from a coleopteran beetle, *Tenebrio molitor*  
Hangray Hawrelle Patnolk, Bhonar Phumun Patnolk, Chung Hyun Kim, Srinanjan Kung, Nany Seok Lee, Hak Leul Lee, Nam Jeong Kim, Yeon Soa Hwan
- PS5TH215** Cloning and expression pattern of a galectin homologue from a coleopteran insect, *Tenebrio molitor*  
Hyo Jeong Lee, Gi Won Son, Jeong Hyeon Seon, Chang Hyun Kim, Srinanjan Kung, Yang Hyun Jo, Yeon Seok Lee, Bok-Leul Lee, Nam Jeong Kim, Yeon Soa Hwan
- PS5TH216** Cloning and in silico analysis of spatzele 7 homologue from a coleopteran insect, *Tenebrio molitor*  
Seogun Kim, Dong Hyun Kim, Yang Seok Lee, Bok-Leul Lee, Nam Jeong Kim, Yeon Soa Hwan
- PS5TH217** Identification and partial characterization of PGRP-LE homologue from a coleopteran insect, *Tenebrio molitor*  
Seul-Gi Mun, Dong Hyun Kim, Yang Seok Lee, Bok-Leul Lee, Nam Jeong Kim, Yeon Soa Hwan



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- P55TH218** Overexpression and purification of the recombinant serralyisin-like metalloproteases in *Escherichia coli*  
Kasuke Kawano, Kazuhisa Oyama, Joe Man Lee, Takahito Kusakabe, Chiea Tsurunaga Akita, Susumu Shimizu
- P55TH219** Virulence of the protein secretion system- deficient mutants of *Pseudomonas aeruginosa* to the silkworm, *Bombyx mori*  
Masahiro Otao, Kazuhisa Oyama, Joe Man Lee, Takahito Kusakabe, Chiea Tsurunaga Akita, Susumu Shimizu
- P55TH220** Interaction of *Xenorhabdus nematophila* with *Bacillus thuringiensis* HD-73 against Bt-resistant *Plutella xylostella*  
Qinying Wang, Yanyan Yang
- P55TH221** The effect of entomopathogenic fungi, *Beauveria bassiana* (Balsamo) Vuillemin and *Lecanicillium muscarium* (Zimmerm.) Zare & W. Gams (Hyphomycetes: Moniliales), on mortality rate of cotton whitefly nymph  
Ahmed Baghdadi, Kimia Kouhestani

## Section 6 Medical Entomology

August 23-24 (Thu-Fri)

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PS6TH222	COI gene information of medicinal insect <i>Catharsius molossus</i> Cheng-Ye Wang, Ying Feng
PS6TH223	Seasonal monitoring of dengue infection in <i>Aedes aegypti</i> and serological feature of patients with suspected dengue in 4 central provinces, Thailand Jakkrawarn Champoonri, Ussavadee Thavara, Apiwat Tawatsin, Surapee Anantapreecha, Padet Siriyasatien
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PS6TH227	Role of the conserved BBA68-BBA73 operon in the life cycle of Lyme spirochete, <i>Borrelia burgdorferi</i> Xuechao Zheng, Haijun Xu
PS6TH228	The first molecular identification of <i>Borrelia</i> spp. in <i>Rhipicephalus sanguineus</i> (Acari: Ixodidae) from domestic dogs in Taiwan Chin-Gi Huang, Chi-Chen Fang, Lu Yun, Kun-Hsien Tsai, Wen-Jer Wu
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PS6TH230	New approaches to physical mapping of mosquito genomes Maria V. Sharakhova, Vladimir A. Timoshevskiy, Becky S. deBruijn, David W. Severson, Igor V. Sharakhov
PS6TH231	Insecticide resistance in bed bugs in Thailand and laboratory evaluation of insecticides for the control of <i>Cimex hemipterus</i> and <i>Cimex lectularius</i> (Hemiptera: Cimicidae) Apiwat Tawatsin, Ussavadee Thavara, Jakkrawarn Champoonri, Yuthana Phrusap, Nisarat Jorjara, Chavada Khumsawadi, Payu Bhakdeewan, Patham Sawaspanyaler, Preecha Asavadachanukorn, Mir S. Mulla, Padet Siriyasatien, Mustapha Debbaoui
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PS6TH235	Distribution of biting midges <i>Leptoconops spinosifrons</i> (Carter) (Diptera: Ceratopogonidae) in Thailand and field efficacy of herbal repellent against <i>L. spinosifrons</i> Ussavadee Thavara, Apiwat Tawatsin, Jakkrawarn Champoonri, Sasichai Saengkitporn, Preecha Asavadachanukorn, Padet Siriyasatien, Anuratt Thepparat, Mir S. Mulla
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- PS6TH249** Allergenicity of recombinant alpha-amylase from German cockroach  
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- PS6TH252** Abundance and dominance of sand fly species (Diptera: Psychodidae: Phlebotominae) in Zahedan County, Sistan - Baluchistan Province, Southeastern Iran  
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PS7TH366	Effects of mulberry leaves as the supplements to weaning pig diet Jeong-Woo Chan, Hye-Jin Kang, Hong-Lim Choi, Young-Chul Jung, Hae-Young Kwon, You-Young Jo, Kang-Sun Rye, Heu-Sam Lee
PS7TH367	Factors of color variations of elytra of <i>Harmonia axyridis</i> (Coleoptera: Coccinellidae) Mi-Ja Seo, Eun-Jin Kang, Dae-Hong Lee, Yong-Man Yi, Young-Man Yoon



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Authors, Presenting author

- P57TH368** Honeybee visiting and Nectar Characteristics on Two Species of Genus *Tilia* as a honey plant  
Jingyu Han, Seo-Hyun Kim, Moon Sun Han
- P57TH369** Behavioral response of western flower thrips to visual and olfactory cues with Chrysanthemum  
Yongseok Choi, Insoo Whang, JunSeok Lee, Eunhee Han, Hyeonkyu Han
- P57TH370** Qualitative assessment of outbreak risk and consequences of introduction of *Bactrocera invadens* through export of fresh fruits of *Citrus sinensis* from Nigeria  
Adebayo Amos Omolaye
- P57TH371** Occurrence and abundance of the insect pests associated with *Amaranthus* species in Ibadan Southwest Nigeria  
Ismaila Adeniran Aderolu, Amos Adebayo Omolaye
- P57TH372** Screening and identification of resistance donor cultivar of *Amaranthus* sp. against *Hymenia recurvalis*  
Ismaila Adeniran Aderolu, Amos Adebayo Omolaye
- P57TH373** Effectiveness of four protectants against the weevil, *Balanogasteris kolae* (Coleoptera: Curculionidae) on kolantus, *Cola nitida* in storage  
Kehinde Abike Kemabanta, Winfred Ayinla Sholomun, Bukola T. Sadiq
- P57TH374** Effect of pollination by 3 species of pollinators, *Apis mellifera*, *Bombus terrestris*, *Osmia cornifrons* in the blueberry field  
Mi-Ae Kim, In Gyun Park, Hyung Joo Kim, Kyung Yoo Lee
- P57TH375** An ecotoxicoproteomic approach (SELDI-TOF MS) to mixture toxicity of trace metals on eggs of mayfly, *Ephemera orientalis* (Ephemeroidea, Ephemeroptera)  
Hyoung-ho Mo, Yongsun Kim, Myung-seob Kim, Eun-ah Lee, Sung, Hwan, Kyeul-Wahn, Kyung-Cha
- P57TH376** Quantification and varietal variation of anthocyanin pigments, free sugars and fatty acids in mulberry fruits (*Morus alba* L.)  
Hyun-bok Kim, Sun-Lim Kim, Gyoa Jeong, Sung
- P57TH377** Effects of diamondback moth resistant transgenic cabbage (*Brassica oleracea*) on arthropod community structure  
Young-Joong Kim, Ki Jung Nam, Soan Chae, Jeeung, Chae Hark Nam, Jiwang, Gu Nam
- P57TH378** Fine structural analysis on the spinning nozzles for the viscids silks in the spider *Nephila clavata* (Araneae: Nephilidae)  
Myung-Jin Moon, Hoon Kim, Hye-Jung Kim, Inop-Guk Park
- P57TH379** Microstructural analysis of the mouthparts in the bark beetle *Ips acuminatus*, and their implication as external carriers of pathogens  
Myung-Jin Moon, Jang-Gu Park, Won-Hy Choi
- P57TH380** Two generations of the European corn borer in Slovakia  
Ludovít Čagan, Miroslav Pernis, Andrea Čokajová
- P57TH381** A novel mosquito feeding system for routine blood-feeding  
Deng Lu, Kaou Sin Yang, Ping Ah Bho, Tay Lee Chin, Sun Gek Lum
- P57TH382** Dispersal patterns of pine wilt disease at the newly infested areas  
Yoo Jeong Choo, Dong-Soo Kim, Yung-Ju Chung, Young-Seuk Park
- P57TH383** Comparative genomic analysis of the UDP-glycosyltransferase multigene family in insects  
Seung-Joon Ahn, Heiko Vogel, Daniel Mockel
- P57TH384** OCH-group (Odonata-Coleoptera-Hemiptera-group), the representative aquatic insect group in the Upo Wetland, Korea  
Jun Shik Bae, Dong Gun Kim, Cha Hwang Lee, Hyeon-Ji Hwang
- P57TH385** Studies on taxonomy, biology and pest status of *Acanthoscelides macrophthalmus* (schaeffer) (Coleoptera : Bruchidae)  
Desh Raj Thakur
- P57TH386** Plant-based insect repellent: is that an appropriate strategy to malaria burden in Ethiopia  
Karunamoorthi Kaliyaperamal, Anissa Ambedu, Eswari Manoharan
- P57TH387** Morphometrics and aspects of Bio-ecology of *Ephestia cautella* (Lepidoptera : Pyralidae) on stored date fruit (*Phoenix dactylifera*) and hermetic control technique  
Kehinde Olajide Kabir Popoola, Jafar Begum
- P57TH388** Effects of gibberellic acid (GA3) on hemocyte numbers, morphology and mitotic indices of *Galleria mellonella* L. (Lepidoptera: Pyralidae)  
Hülya Altunoglu, Feriiz Uckan, Yavuz Kiliç, Elvire Eymir

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PS7TH389	Determination of diazinon residues in grape and sour grape Khalil Talebi, Ehsan Forabi
PS7TH390	Larvicidal activity of essential oils from <i>Thymus kotschyanus</i> and <i>Mentha longifolia</i> against <i>Tribolium castaneum</i> Hadi Akrami, Saeid Moharrampour
PS7TH391	Population density of <i>Edwardsiana rosae</i> L. and <i>Ardis brunniventris</i> Hartig on different genotypes of <i>Rosa damascena</i> in West-Azarbaijan province, Iran Zohreh Nikoo, Hosseini Lotfalizadeh, Ismail Alizadeh, Mohammadreza Zargaran
PS7TH392	Biological controllers of <i>Opsiphanes cassina</i> (Lepidopterous: Brassolidae) in plantations of African oil palm, Venezuela, South America Paula Beserra Maia
PS7TH393	Predatory efficiency of <i>Chrysoperla zastrowi sillemi</i> (Esben-Peterson) and <i>Cryptolaemus montrouzieri</i> Mulsant on <i>Paracoccus marginatus</i> and <i>Phenacoccus solenopsis</i> infesting Sunflower Mariappan Suganthi, Periyasamy Sakthivel
PS7TH394	Classical biological control of papaya mealybug, <i>Paracoccus marginatus</i> (Williams and Granara de Willink) using <i>Acerophagus papayae</i> (Noyes and Schauf) in Tamil Nadu, India Periyasamy Sakthivel, P. Katappachari, Mariappan Suganthi, Thulasi Srinivasan
PS7TH395	Preliminary study of <i>Oligonychus afasiaticus</i> predators in Manoojan (south of Iran) Sadeq Farzan, Mina Khatizadeh, Mahdieh Asadzadeh
PS7TH396	The report of some typical oriental water mites (Acari: Hydrachnidia) from another province in south of Iran (Manoojan) Saeid Arjmand, Iza Etemadi, Mahdieh Asadi
PS7TH397	First report of the marine water mites <i>Pontarachna arabica</i> (Hydrachnidia: Pontarachnidae) from Iran Iza Etemadi, Mahdieh Asadi, Mahe Latifi
PS7TH398	Acetylcholinesterase insertion mutations in insecticide-resistant populations of Colorado Potato Beetle, <i>Leptinotarsa decemlineata</i> (Say) Maryam Malekmohammadi, Mir Jalil Hajazi, Mohammad Saeed Mossadegh, Hamid Galehdari, Mohammad Kharjani, Mohammad Taghi Goodarzi
PS7TH399	Acetylcholinesterase deletion mutations in insecticide-resistant populations of Colorado Potato Beetle, <i>Leptinotarsa decemlineata</i> (Say) Maryam Malekmohammadi, Mir Jalil Hajazi, Mohammad Saeed Mossadegh, Hamid Galehdari, Mohammad Kharjani, Mohammad Taghi Goodarzi
PS7TH400	PGPR as biofertilizers: Their impacts on productivity of lentil and chickpea and population incidence of associated insect fauna Muhammad Dilvar Gogi, Muhammad Ashfaq, Muhammad Jakari Arif, Muhammad Irfan Ashraf, Rashad Rasool Khan, Muhammad Rafiq Shafiq
PS7TH401	Investigations on development stages of <i>Lucilia caesar</i> Linne, 1758 (Calliphoridae: Diptera) in terms of forensic Entomology Hulya Aksay Aydinli, Holan Caliskan
PS7TH402	Sustainable agriculture through a miracle plant of Pakistan Muhammad Ashfaq, Shahzad M. Basra, Umair Ashfaq
PS7TH403	Using species of Ephemeroptera as saprobic indicator to determine water quality in Sultansuyu stream (Malatya, Turkey) Caner Aydinli
PS7TH404	Determination of diazin pesticide residue in rice by gas chromatography /mass spectrometer in Mazandaran Province in Iran Sohrab Imani, Shahzad Mohammadi, Ahmad Reza Golmohammadi, Sina Imani
PS7TH405	Epidemiological aspects of human myiasis in Iran Javad Rafinejad, Kamran Akbarzadeh, Akbar Biglarian, Fariba Bickarian, Atiyeh Rafinejad
PS7TH406	Chemical analysis of spinach resistance to aphids and leaf miners Nasir Masood
PS7TH407	Biology of <i>Phalantha phalantha</i> daurya (Lepidoptera: Nymphalidae) an injurious pest of well known medicinal plant <i>Withania somnifera</i> Dunal Mahadeo Gorain
PS7TH408	Survey of relationship between birds damage and morphological characteristics of sunflower Esmail Alizadeh

## Code No.

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Authors, Presenting author

- P57TH409** Quantitative and qualitative wheat loss assessment at different storage structures  
Shahzad Saleem, Mansoor Ul Hassan, Muhammad Sagheer, Sahal Malik Amir
- P57TH410** Investigation of genetic diversity of *Hygrobatas fluvialis* (Hydrachnidia: Hygrobatidae) populations from different habitats in Iran  
Mahdleh Asadi Zeidabadi, Norihide Hironaka, Akihiro Sakurai
- P57TH411** A preliminary documentation of consumable Acridid (Orthoptera) species worldwide  
Amlan Das, Klaus Riede
- P57TH412** Species richness & abundance of Arctiinae (Erebidae: Noctuoidea) in Western Ghats of India  
Navneet Singh, Jagbir Singh
- P57TH413** Antimicrobial activity and composition of *Artemisia judaica* L. essential oil from Egypt  
Omar Mohamed Zayed, Hany Kamel Abd El-Hady
- P57TH414** Pollen analysis in honeys collected from Karnataka region of Nilgiri Biosphere, South India  
Sivaram Venkataramegowda, Roopa P., Shubharani Ramanath, Gunama Sureshachandry
- P57TH415** Physicochemical characteristics and pollen analysis of honeys from western ghats of Karnataka, South India  
Shubharani Ramanath, Sivaram Venkataramegowda
- P57TH416** Determination of major constituents of honeybee venom from Korea  
SangMi Han, Haju Baek, Hyung Joo Yoon, Joongmin Kim, Seohwa Park
- P57TH417** Royal jelly reduces melanin synthesis through down regulation of tyrosinase expression  
SangMi Han, Yoonhee Cho
- P57TH418** Silk fibroin for guided bone regeneration  
HaeYong Kweon
- P57TH419** Preparation and characterization of regenerated *Antheraea pernyi* silk fibroin  
KwangGil Lee, HaeYong Kweon
- P57TH420** Thick flexible silk fibroin biological membrane  
Yoo Young Jo, HaeYong Kweon
- P57TH421** Pollinating activity of 3 species of insects, *A. mellifera*, *O. cornifrons*, *B. terrestris*, in Japanese apricot field  
In Gyun Park, Mi-Ae Kim, Hyung Joo Yoon, Aeyoung Jung Lee
- P57TH422** The influence of soil exposure methods on toxicities of insect growth regulators (IGRs) for *Paranura rosea* (Collembola)  
Yun-Sik Lee, Jino Son, Youngseun Kim, Sohee Yu, Hyeonjae Ho Ma, Ryosang Chae
- P57TH423** Complete comparative genomic analysis of *Bombyx mori* nucleopolyhedrovirus-K1, K4 and K5 strains isolated in Korea  
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- P57TH424** Production of porcine circovirus type 2 capsid protein by the fusion expression with baculovirus partial polyhedrin in insect cells  
Jun Beom Lee, Sung Min Bae, Hee Jung Kim, Won Il Hwa, Joo Bang Choi, Inseok Jo, Byung Han Ba, Son Dong Hwa
- P57TH425** Antimicrobial effects on *Propionibacterium acnes* of extracts from Korean propolis  
Soeun ok Woo, Sangmi Han, In-Pyo Hong, Yong-Soo Choi, Kwang Gil Lee, HaeYong Kweon
- P57TH426** Development of [Ecology experience kit displaying photo-tactic insects] to activate the insect industry  
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- P57TH427** Trapping time effect on a Korean strain of the entomopathogenic nematode, *Steinernema carpocapsae*  
DongWan Lee, Ho Yul Cho
- P57TH428** Cloning and characterization of *Pieris rapae* granulovirus chitinase gene  
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Won-Jong Kim, Ju Young Noh, Hun Cheon Jeong, Inhyuk Seok Lee, Chulsoo Chang, In Seok Kang, Won Son Park
- P57TH429** Molecular and Immunohistochemical characterization of granulins gene encoded in *Pieris rapae* granulovirus genome  
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Won-Jong Kim, Ju Young Noh, Hun Cheon Jeong, Inhyuk Seok Lee, Chulsoo Chang, In Seok Kang, Won Son Park
- P57TH430** Cloning and genomic structure of superoxide dismutase-1(sod1) gene from the entomopathogenic fungus, *Cordyceps psilosa*  
Joo Yeon Kim, Nam Soe Park, Sang Mang Lee
- P57TH431** Effects of aqueous extracts of basil, *Ocimum basilicum* L., Sodom's apple, *Cafrotropis procera* Ait and Coriander *Coriandrum sativum* L. Flea beetle *Podagrica* spp. on okra crop  
Fatma Elgaili Elhassan Saleh, Bahgat Elmaghrabi, Mahmoud Elmaghrabi, Hana Z. Elmaghrabi, Elmaghrabi Elmaghrabi

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PS7TH433	Molecular shift in insecticidal proteins: I. Evidence of beneficial trait deterioration in nematode-symbiotic bacterium complex Cheng Bai
PS7TH434	Characteristics of a BT strain with high insecticidal activity Cheng Bai
PS7TH435	Chikungunya an alphaviral infection: Emerging threat in urban area of Bangalore, India Mohammad Nazrul Islam, Zukhrifa Mohammed, Shrawan Arak, Ghosh SK
PS7TH436	Epiblema strenuana: Challenges for its use as a biological control agent for the invasive plant <i>Parthenium hysterophorus</i> in Africa Andrew John McCannachie, Lorraine Wallace Strathairn
PS7TH437	Antiviral role of mosquito ubiquitin Tanya Colpitts, Michael Conway, Frit Fikrig
PS7TH438	The effects of Thai herbal essential oils on the oviposition-deterrent and ovicidal activities of <i>Aedes aegypti</i> (Linn.), <i>Anopheles dirus</i> (Peyton and Harrison) and <i>Culex quinquefasciatus</i> (Say) Siriporn Phasomkusattit
PS7TH439	Hyperparasitoids and biological control of insect pests: Differential vulnerability of primary parasitoids to obligate hyperparasitism can mitigate trophic cascades Robert Sicola Nofemela
PS7TH440	Morphometric, molecular and biological studies of the <i>Thrips tabaci</i> Lind. (Thys: thripidae) populations collected from onion and tobacco in Iran Lida Fekrat, Shahab Monzari, Parviz Shafiepour
PS7TH441	Study on population dynamics of <i>Diaphorina citri</i> Kuwayama (Hemiptera: Psyllidae) in Baluchestan Behnam Motamednia, Qasrekeh Sabati
PS7TH442	Efficacy of organic and synthetic insecticides on the control of cotton pests: The bollworm complex, <i>Helicoverpa armigera</i> , <i>Diparopsis castanea</i> and <i>Earias insulana</i> for small-scale farmers Lawrence Nkosi Khona Malinga
PS7TH443	Late instar western tent caterpillars thrive on tough mature leaves Rana M Sarfraz, Hettler Khurroba, Judith H. Myers
PS7TH444	Spectrum, stability and durability of monolocus and pyramided lines with green rice hopper [Grh] resistance genes Vu Quynh
PS7TH445	Potential of <i>Poecilomyces lilacinus</i> for control of <i>Anastrepha ludens</i> Ricardo Toledo Hernandez
PS7TH446	Forensic Entomology on the Gauteng Highveld, South Africa Alison Elizabeth Gilbert, Belinda Spillings, Lorette Koekemoer, Mawene Coetzee
PS7TH447	Specific activity distribution of acetylcholinesterase and its gene ace2 expression in the bumblebee <i>Bombus hypocrita</i> (Hymenoptera: Apidae) Shudong Luo, Xishu Xiao, Jialin Lu, Jie Wu
PS7TH448	Improved performance of Azadirachtin and Matrine insecticides by plant oil for chemical control of the leafminer, <i>Liriomyza sativae</i> Blanchard (Dip: Agromyzidae) in cucumber Ahmad Baghdadi, Faten Sobier, Anz Shakhri
PS7TH449	Sublethal effect of two conventional insecticides on life table parameter of ectoparasitoid <i>Habrobracon hebetor</i> (Say) (Hymenoptera: Braconidae) Ahmad Baghdadi, Hassan Meridi
PS7TH450	Fauna of the family Laelapidae (Acar: Mesostigmata) in apple orchards of Salmas region, west Azarbaijan Province, Iran Mohammad Hossein Kazem, Sedigheh Alizadeh, Davood Shirdel, Hendar Adilsoori, Nouraddin Shayeesteh
PS7TH451	Some of the mesostigmatic mites (Acar: Mesostigmata) in apple orchards of Salmas region, West Azarbaijan Province, Iran Mohammad Hossein Kazem, Sedigheh Alizadeh, Davood Shirdel, Hendar Adilsoori, Nouraddin Shayeesteh
PS7TH452	Effects of silver nanoparticles (Ag NPs) and polymers on stored pests for improving the industry of packaging foodstuffs Somye Afsharvati



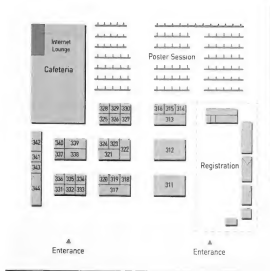
## Code No.

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Authors, Presenting author

- PS7TH473 Effects of levels of initial infestation on damage to resistant and susceptible cowpea by *Callosobruchus maculatus* (Fab.)  
Jacobs Mabelade Adesina, Tomas I. Oluyi, Ayi Idoko
- PS7TH474 Diversity of non-target insect community in bt and non-bt cotton  
Anjum Suhail, Muhammad Arshad, Zain ul Abidin, Muhammad Dilbar Gogi, Rashid Rasool Khan
- PS7TH475 Studies on aphid pests of apple in orchards of Himachal Pradesh state of India  
D.C. Gautam, Meena Kumari
- PS7TH476 Phytosanitary risk of bruchids in import of legume germplasm in India  
Shashi Bhatta, Manju Lata Kapur, Kavita Gupta, Charen Singh, Prakash Chandra Agarwal
- PS7TH477 Effects of gamma radiation on mature larvae of *Pectinophora gossypiella* (Saunders) and their F1 progeny  
Syed Shahzad Ali
- PS7TH478 Effect of different temperature regimes on the development of *Bracon hebetor* (Say) (Hymenoptera: Braconidae) and its parasitism  
Rashad Rasool Khan, Muhammad Ashfaq, Sohail Ahmed, Khuram Zia, Muhammad Arshad, Muhammad Dilbar Gogi
- PS7TH479 Behavior of insect-pests and pathogens on the cones and seeds of *Pinus gerardiana* (Chilgozapine)  
Pawan Kumar
- PS7TH480 Isolation and identification of Alfalfa mosaic virus from Egypt  
Sahar Hassan El Helaly, Aislin Abo El Ghar, Awad Mohamed Ahmed, Amal Farhaly
- PS7TH481 Behavior of insect-pests and pathogens on the cones and seeds of *Pinus gerardiana* (Chilgozapine)  
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# Exhibitor Profiles

## The Entomological Society of Korea

Booth Number: 332

**Address:** Korea University, College of Life Science(Nokji533), 5-ga, Anam-dong, Sungbuk-Gu, Seoul 136-713, Rep. of Korea  
**Telephone:** +82 2 3290 4260  
**Fax:** +82 2 3290 3623  
**Homepage:** www.korentsoc.org  
**E-mail:** entokso@korea.ac.kr

The Entomological Society of Korea(ESK) was founded on November 1970. The ESK not only contributes to the development of Entomology through study of related fields and the insects, but also has the objective in promoting fellowship among the members. The head office of ESK is located at Korea University, Seoul.

The regular academic meeting and symposium of ESK has been held two time in a year with national and international scholars accompanying special seminars. The ESK academic journal 'Entomological Research' has published to the volume 42 number 3 in May of 2012.

## The Korean Society of Applied Entomology

Booth Number: 333

**Address:** Korean Society of Applied Entomology, Applied Entomology Division, National Academy of Agricultural Science, Rural Development Administration, 61 Seodun-dong, Suwon 441-853 Rep. of Korea  
**Telephone:** +82 31 291 3681  
**Fax:** +82 31 291 2137  
**Homepage:** www.entomology.or.kr  
**E-mail:** office@entomology.or.kr

The Korean Society of Applied Entomology was established in 1962. The society began as the Korean Society of Plant Protection, and changed its name in 1988. The KSAE serves the professional and scientific needs of entomologists and people in related disciplines in Korea. The membership represents educational institutions, health agencies, private industry, government, and etc. Members are related with basic and applied area concerning insects, mites or other arthropods and nematodes of economic importance in agriculture, forestry, industry, human and animal health, and natural resource and environment management. The KSAE publishes two journals, Journal of Asia-Pacific Entomology and Korean Journal of Applied Entomology. The KSAE holds two conferences annually.

## The Apicultural Society of Korea

Booth Number: 334

**Address:** Seodun-Dong 61, Kwonseon-Gu, Suwon 441-100, Rep. of Korea  
**Telephone:** +82 31 290 8528  
**Fax:** +82 31 290 8503  
**Homepage:** www.bee.or.kr  
**E-mail:** beechoi@korea.kr

The Apicultural Society of Korea (ASK) was founded in 1986 as a non-profit organization to promote the apiculture. The ASK was established to support domestic apicultural scientists and beekeeping association together actively to develop new apiculture technologies in apiculture science for industrial application in beekeeping.

Korean Journal of Apiculture (KJA) is published quarterly per year(30 April, 30 July, 30 October and 30 December) by the Apicultural Society of Korea.

The ASK has an international scope with a broad constituency of scientists interested in the biology, food science, forestry, medical, agriculture and veterinary importance of hymenopteran insects.

## The Korean Society of Sericultural Science

Booth Number: 335

**Address:** 61-1 Seodun-dong, Suwon, Gyeong-Gi-Do, Rep. of Korea  
**Telephone:** +82 31 290 8509  
**Fax:** +82 31 290 8516  
**Homepage:** www.jsje.or.kr  
**E-mail:** hykwoon@korea.kr

The Korean Society of Sericultural Science established in 1957 is the academic society for the development of sericultural science. Sericultural science is multidisciplinary study including mulberry, silkworm rearing, insect pathology, and silk science. It holds academic meetings biannually and publishes two scientific journals; International Journal of Industrial Entomology (English) and Journal Sericultural and Entomological Science (Korean). International Journal of Industrial Entomology (Int J Indust Entomol, UIE) is an international journal devoted to industrial interest and knowledge concerning insects and their products. It is published quarterly and accepts manuscripts written in English. Journal of Sericultural and Entomological Science (J Seric Entomol Sci) is a Korean journal covering mulberry and silkworm culture, insect pathology and biotechnology, silk science, and insect resources for human beings. It is published biannually.

## Korea Tourism Organization

Booth Number: 312

Address: 40, Cheonggyecheon-ro, Jung-gu, Seoul, Rep. of Korea  
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 Fax: +82 2 778 2326  
 Homepage: www.knto.or.kr  
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Korea Tourism Organization (KTO) hopes not only to stimulate the Korean tour industry, but also further share Korean Culture with the world. Come and see the real Korea!

## LG Electronics

Booth Number: 317

Address: LG Twin Towers, 20 Yeouido-dong, Yeongdeungpo-gu, Seoul, Rep. of Korea  
 Telephone: +82 2 3777 1114  
 Homepage: www.lg.com

LG Electronics Air Conditioning & Energy Solutions Company (LG AE) provides total solutions in Heating, Ventilation, Air Conditioning (HVAC) and Energy. Through its innovative technology and heavy investments in R&D, LG AE has been providing not only comprehensive, energy efficient and environment friendly solutions, but also provides Unique Mosquito Repellent Technology to customers with mosquito protection needs. Through the ICE 2012, LG AE will introduce its efforts in developing Mosquito Repellent Technology through an Air Conditioner.

## Buan-gun Office

Booth Number: 313

Address: 91, Dangsan-ro, Buan-eup, Buan-gun, Jeollabuk-do, Rep. of Korea  
 Telephone: +82 63 580 4831  
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 Homepage: www.buan.go.kr  
 E-mail: Kyseulmi@korea.kr

Buan is full of great sceneries, historical legacies, culture, and tour sites.

There are several delicacies in Buan, such as lever from the clean sea, webfoot octopuses, cuttle fish, and gizzard shads. Our county is bountiful and happy and neighbors are friendly. Buan is also called as "生居扶安" (Sang hwal Buan; the meaning can be interpreted as "helping life to be comfortable.") In the future, Buan plans to set high goals and visions for the 21st century and will strive to play an important role in the west coast era. The construction of the Saemangeum Sea Wall, which is 33 km long and is the longest sea wall in the world, will be the driving force for future development.

## Jinan-gun Green Red Ginseng Cluster Project Group

Booth Number: 314

Address: 1166 Jinmyo-ro, Jinan-eup, Jinan-gun, Jeollabuk-do, Rep. of Korea  
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 Homepage: www.jinansam.com  
 E-mail: roofdg@hanmail.net

Jinan-gun is the most famous town of Korean Red Ginseng. Jin-an Red Ginseng, a typical local product of Jinan-gun is produced in mount Ma-i which is located in 400 meters above the sea level. The Red Ginseng is well known for its excellent efficacy at home and abroad.

## Chonbuk National University

Booth Number: 315

Address: 567 Baekji-daero, Deokjin-gu, Jeonju-si, Jeollabuk-do, 561-756, Rep. of Korea  
 Telephone: +82 63 270 4627  
 Fax: +82 63 270 2020  
 Homepage: www.cbnu.ac.kr  
 E-mail: jtc@cbnu.ac.kr

Chonbuk National University (CBNU) is a dynamically changing university. We excel in the areas of research and university-industry cooperation, and it places an importance in the quality of education for our students. CBNU is on the cutting edge of innovation throughout five campuses with 14 colleges, 1 faculty, 4 professional graduate schools, 1 general graduate school, 9 specialized graduate schools and a student body of 32,000. Since its foundation, CBNU has produced over 200,000 graduates and they are contributing to international society as global leaders. The Times Higher Education and Thomson Reuters 2010 World University Rankings placed CBNU 6th nationally among comprehensive universities, 273rd globally. With outstanding research, active university-industry cooperation, and high quality education, CBNU is going to become Korea's growth driver.

## JEONNAM. Korea Insect Industry Association(Jeonnam branch)

Booth Number: 316

Address: Ohryong street 1, Namak-ri, Samhyang-eup, Muan-gun, Jeollanam-do, Rep. of Korea  
 Telephone: +82 61 247 0011  
 Homepage: www.jeonnam.go.kr/mbs/jeonnam

- Meeting industry with insect
- Development industry to make success
- First establish distribution structure, second raise farmhouse for strengthen competitive power.
- Possibility using insect, promote industrialization for tea, and drink
- Make experience for publicizing insect
- Promote bio-industry using insect rape substance, and poison

## Dong Sung Pharm. Co., Ltd.

Booth Number: 318

Address: 703-14, Sanghak-dong, Dobong-gu, Seoul, Rep. of Korea  
Telephone: +82 2 6811 3601  
Fax: +82 0505 191 2601

Since its founding in 1957, Dong Sung has advanced technologically, while at the same time developing the highest quality products and strengthening its position as one of Korean leading pharmaceutical companies. Currently, we possess Korean largest production facilities, hold 40 percent of the domestic hair dye market and are renowned for the safety, efficacy and quality of our pharmaceutical products. Our success reflects the exceptional teamwork and commitment of the Dong Sung team to delivering the highest quality service to you, our customers. It also reflects your belief and support in Dong Sung.

## Osangkinsect

Booth Number: 319

Address: 91-4, Sunam-ri, Dong-myeon, Cheonan-city, Rep. of Korea  
Telephone: +82 41 551 3660  
Fax: +82 41 555 3661  
Homepage: [www.greenipm.co.kr](http://www.greenipm.co.kr)  
E-mail: [hameunhye@hotmail.com](mailto:hameunhye@hotmail.com)

Osangkinsect is the national market leader of biological crop protection and biological resources industry. Osangkinsect is one of the best placed companies to develop simple and reliable biological control programs. We have more than 10 years of experience with biological resources industry, such as pet insect, beneficial insect, edible insect, medicinal insect, environment-friendly agricultural materials, etc.

As a research facility, Inst. for Bioresources of Osangkinsect is unique in offering a complete range of research options, from laboratory tests up to full scale field studies. As a result of intensive cooperation between researchers and the biological control practitioners, it is expected that these developments will result in a rapid improvement of the biological control industry.

## GAIA Co. Ltd

Booth Number: 320

Address: #1-202 snu BioVenture Valley, 103-2 Seodun-dong, Kwonseon-gu, Suwon Rep. of Korea, 441-853  
Telephone: +82 31 241 3754  
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## Korea Apicultural Agricultural Cooperative

Booth Number: 321

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Telephone: +82 31 671 5000  
Fax: +82 31 671 6880  
Homepage: [www.honeyemail.com](http://www.honeyemail.com)  
E-mail: [kimsi7762@naver.com](mailto:kimsi7762@naver.com)

Nonghyup fifty years specializing in traditional honey HACCP standards specify the honey products Propolis health food specifies GMP businesses

## Entomological Society of America

Booth Number: 322

Address: 10001 Dorewood Lane, Ste 100, Lanham, Maryland 20706, USA  
Telephone: +1 301 731 4535  
Fax: +1 301 731 4538  
Homepage: [www.entsoc.org](http://www.entsoc.org)  
E-mail: [esa@entsoc.org](mailto:esa@entsoc.org)

The Entomological Society of America (ESA) is the premier worldwide organization serving the professional and scientific needs of entomologists and others in related disciplines. Founded in 1889, ESA has more than 6,400 members affiliated with educational institutions, health agencies, private industry, and government. Members are entomologists, plant pathologists, pest control professionals, agronomists, biologists, zoologists, taxonomists, research technicians, consultants, students, educators and others who study insects. ESA publishes five internationally-acclaimed scientific journals that provide unsurpassed coverage of the broad science of entomology. ESA's Annual Meeting brings 3,400 researchers together for four days of scientific presentations covering all aspects of insect science.

## Insect Biotech Co., Ltd.

Booth Number: 323

Address: 1628-36d, Yuseong Blvd, Yuseong-gu, Daejeon, Rep. of Korea  
Telephone: +82 42 862 8440  
Fax: +82 42 862 8441  
Homepage: [www.insectbiotech.co.kr](http://www.insectbiotech.co.kr)  
E-mail: [webmaster@insectbiotech.co.kr](mailto:webmaster@insectbiotech.co.kr)

Insect Biotech was established in 2000 as a spin-off company from Korea Research Institute of Bioscience and Biotechnology(KRIBB) for utilization of insects, related microorganisms and bio-diversity which are the most diversified and abundant on the earth. Insect Biotech pursues the R&D and production of industrial enzymes, pharmaceuticals, functional foods, functional cosmetics, animal feed additives, and other bioactive substances for our healthy, wealthy and beautiful life in harmony with the nature.

## Korea Research Institute of Bioscience & Biotechnology

Booth Number: 324

Address: 125 Gwaak-ro, Yuseong-gu, Daejeon, Rep. of Korea  
 Telephone: +82 42 860 4114  
 Fax: +82 42 861 1759  
 Homepage: www.kribb.re.kr

KRIBB is the only government research institute dedicated to biotechnology research across a broad span of expertise, from basic studies for the fundamental understanding of life phenomena to applied studies such as new drug discovery, novel biomaterials, integrated biotechnology, and bio-information. KRIBB will contribute to Korea's economic development and people's welfare and lives. We will make dreams become reality. We ask you to continue your special interest and your ardent support in us.

## Korea Forest Research Institute

Booth Number: 325

Address: 57 Hoegi-ro, Dongdaemung-gu, Seoul,  
 Rep. of Korea, 130-712  
 Telephone: +82 2 961 2521  
 Fax: +82 2 961 2679  
 Homepage: www.forest.go.kr  
 E-mail: kfr@forest.go.kr

Korea Forest Research Institute is investigating about mitigation of the effects of climate change, which is one of the forest's fundamental roles, maintenance of biodiversity, prevention of desertification, etc. in order to maintain natural environment healthy, improve human health through forest's self-purification capacity and healing effects, increase the owners of forestry and rural population's income through adequate production of forest, and to improve local areas and forestry industry that produce fresh high-quality goods. We look forward to make progress and keep investigating in order to make forest facilitate green development with low level of carbon dioxide, develop forest as a high-value-products industry, and use this forest industry as a fuel of the nation's economic growth. We will enable you to receive all the benefits that forest offers by strengthening practical field investigation that you can actually feel and experience.

## Gyeonggi-do Agricultural Research & Extension Service

Booth Number: 326

Address: 315 Gisan-dong, Hwaseong-city Gyeonggi-do 445-84,  
 Rep. of Korea  
 Telephone: +82 31 229 5893  
 Fax: +82 31 229 5968  
 Homepage: www.nongup.gyeonggi.go.kr  
 E-mail: cho@gg.go.kr

- Raising useful insects to develop indigenous natural predators and Marketing for new income resources.

- Development of region of focusing varieties and new varieties
- Development of region of focusing varieties and new varieties
- Production and supply of high quality varieties and farming site agriculture technology
- Development and supply of highly profitable industrialized agriculture and low carbon green development technology
- Educate farmers about new technology and develop regional agriculture
- Educate agricultural professionals and their study groups

## Jeonnam Bio Control Center

Booth Number: 327

Address: 495, Immyeon-ro, Im-myeon, Gokseong-gun,  
 Jeollanam-do, Rep. of Korea, 516-942  
 Telephone: +82 61 362 0630  
 Fax: +82 61 362 0631  
 Homepage: www.jbcc.re.kr  
 E-mail: sunam0907@naver.com

The hub of environment-friendly agriculture! The Jeollanam-do Bio Control Center (JBCC) is equipped with state-of-the-art facilities and equipment for the production of natural enemies, seeds, and environment-friendly agricultural products, etc. Also the JBCC performs R&D of agro-bio materials, the analysis of agricultural materials and pesticide residues, etc. The Jeollanam-do Bio Control Center (JBCC) was established in 2006 for R&D, production and industrialization of natural enemies, seeds and environment-friendly agricultural products and it is the environment-friendly agro-bio industry cluster for biological control. The JBCC's vision is to make a great contribution to the vitalization of the local economy and environment-friendly agriculture by achieving annual sales of KRW 100 billion and attracting 50 companies by 2016.

## Taylor & Francis

Booth Number: 328

Address: 240 MacPherson Road #08-01 Pines Industrial Building,  
 Singapore 348574  
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 Fax: +65 6741 6922  
 Homepage: www.taylorandfrancis.com  
 E-mail: info@tandf.com.sg

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## BRILL

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Founded in 1683 in Leiden, the Netherlands, Brill is a leading international academic publisher in different fields of science and humanities. The Brill Biology list includes Entomology titles such as the Fauna Entomologica Scandinavica Book Series, and the journals Terrestrial Arthropod Reviews and Insect Systematics & Evolution. Since 2012 Brill also publishes the Tijdschrift voor Entomologie (the journal of the Netherlands Entomological Society).

## icipe

Booth Number: 330

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Telephone: +254 20 8632101

Fax: +254 20 8632001/2

Homepage: [www.icipe.org](http://www.icipe.org)

E-mail: [icipe@icipe.org](mailto:icipe@icipe.org)

icipe - African Insect Science for Food and Health ([www.icipe.org](http://www.icipe.org)), is a pan-African research and development centre with operations in 30 countries in sub-Saharan Africa. The Centre's R&D philosophy is encapsulated in its 4-H paradigm, focusing on human, animal, plant and environmental health with arthropods as the common denominator. Our work focuses on green and sustainable pest control strategies, with a particular emphasis on biological and integrated control, and is complemented by strong ties to many universities and research organizations in Africa, Asia, Europe and North America. icipe will showcase products derived from its agricultural research, extension, education, training and development work.

## National Institute of Biological Resources

Booth Number: 331

Address: Environmental Research Complex, 42 Nanji-ro, seo-gu,

Incheon, Rep. of Korea

Telephone: +82 32 590 7232

Fax: +82 32 590 7040

Homepage: [www.nibr.go.kr](http://www.nibr.go.kr)

E-mail: [dpt510@korea.kr](mailto:dpt510@korea.kr)

The NIBR was established in 2007 to create an efficient preservation and management system for biological resources and biodiversity, build a infrastructure to support the bio-technology industry and enhance national competitiveness, increase public awareness on biological diversity and the importance of biological resources. We have cooperated with international research organizations, signing a MOU with 17 biological organizations from 12 countries and we are engaged in diverse collaborative projects with global institution include joint biodiversity surveys, financial and technical aids, construction of advanced research facilities, professional training programs, exchange of specimens and collaborative workshops.

## KOREABIO Co., Ltd.

Booth Number: 336

Address: 288-1, Mangwol-ri, Jeongnam-myun, Hwasung-city,

Kyunggi, Rep. of Korea

Telephone: +82 31 354 8183

Fax: +82 31 353 8247

Homepage: [www.koreabio.net](http://www.koreabio.net)

E-mail: [koreabio2010@gmail.com](mailto:koreabio2010@gmail.com)

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## Elsevier

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As a global publisher of science and health information and tools, Elsevier serves more than 30 million scientists, students, and health and information professionals around the world. Our leading entomology publications include titles such as Journal of Asia-Pacific Entomology, Insect Biochemistry and Molecular Biology, Journal of Insect Physiology, Arthropod Structure & Development, and Journal of Invertebrate Pathology.

Find us at booth #337, to find out more about our publications in entomology.

## Korea Beekeeping Association

Booth Number: 338

Address: 1621-19 Seocho 1-dong, Seocho-gu, Seoul 137-070,

Rep. of Korea

Telephone: +82 2 3486 0882~5

Fax: +82 2 3486 0806

Homepage: [www.korapis.or.kr](http://www.korapis.or.kr)

E-mail: [apiary@chol.com](mailto:apiary@chol.com)

Korea Beekeeping Association is a nonprofit organization for producers which has been making its ceaseless efforts to protect rights and interests of some 40,000 domestic beekeeping farmers and to promote advancement of apicultural industry for 44 years since it was established in 1967. Accordingly, we are endeavoring to promote to advancement of apicultural industry and practice green growth through research projects to improve quality of bee products, honey plant cultivation projects to build foundation for apicultural industry, beekeeping technology research and information exchange projects through international organizations, and honey bee food product development research projects.

**Springer**

Booth Number: 339

Address: Tiergarten str. 17, D-69121 Heidelberg, Germany  
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 Homepage: www.springer.com

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Pensoft Publishers Ltd. is a company specializing in the field of academic book and journal publishing. It is among the leading academic publishers in Europe with more than 700 books published until now. In 2008, PENSOFT launched its first open access journal ZooKeys which is now considered the most technologically advanced journal in systematics. Since then the number of journals published by Pensoft has raised to 10. The company is actively developing new methods for dissemination of information, including publishing of semantically enhanced automated exports to global data aggregators, such as Encyclopedia of Life and Global Biodiversity Information Facility.

**The Royal Entomological Society**

Booth Number: 341

Address: The Mansion House, Chiswell Green Lane, St. Albans, UK  
 Telephone: +44 (0) 1727 899 387  
 Fax: +44 (0) 1727 894 797  
 Homepage: [www.royensoc.co.uk](http://www.royensoc.co.uk)  
 E-mail: [info@royensoc.co.uk](mailto:info@royensoc.co.uk)

The Royal Entomological Society exists to promote the dissemination of knowledge in all fields of insect science. It is the principal society in the United Kingdom for professional entomologists, and has overseas members, as well as strong amateur membership.

The Royal Entomological Society was founded in 1833 as the entomological Society of London and it is the successor to a number of short-lived societies dating back to 1745. To find out more, visit [www.royensoc.co.uk](http://www.royensoc.co.uk).

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**KOREA SERICULTURAL ASSOCIATION**

Booth Number: 343

Address: Silk Center BLDG., 17-9, Yoido-dong, Yongdeungpo-gu, Seoul, Rep. of Korea  
 Telephone: +82 2 783 6071-5  
 Fax: +82 2 780 0706  
 Homepage: [www.silktopia.or.kr](http://www.silktopia.or.kr)  
 E-mail: [silkasn@chol.com](mailto:silkasn@chol.com)

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- Production guide, arranging marketing system and PR to extend the consumption of sericultural products
- Efficient management of sericulture Promotion Funds
- Silk Cultural Activities(KOREA Silk Museum)
- International Cooperation in Silk

**Job Room/Young Entomologists and Women Entomologists Joint Committee**

Booth Number: 344

This committee has developed exciting and fun events for ICE 2012 attendees. The committee 1) set up Facebook and Twitter pages for networking and questions/answers, 2) will have a job board set up at the exhibit hall, and 3) organize some spontaneous gatherings, meetings, or outings for attendees during the conference.

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원예용 강력 살충·살비제

## 웹페이지

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